

LOCATION MAP  
NOT TO SCALE

PROJECT  
LOCATION

# CONSTRUCTION PLANS FOR LOS ALAMOS COUNTY LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE III



VICINITY MAP  
NOT TO SCALE

## DRAWING INDEX

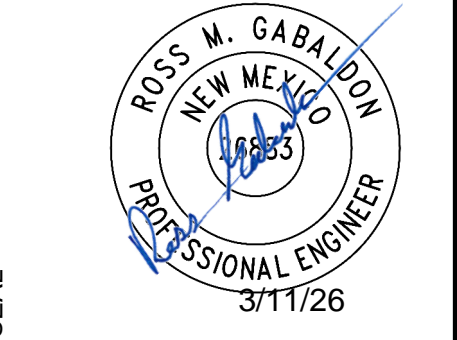
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CONSULTANTS



SEAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**COVER SHEET**

SHEET NO:  
**G-001**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT.  
(SECTION 57-28-5 B (2) NMSA 1978).

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GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, 3) THE LATEST EDITION OF THE COUNTY OF LOS ALAMOS STANDARD DETAILS, AND 4) THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
2. THE CONTRACTOR AND DEVELOPER AGREE THAT THEY SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
4. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IS IN THE PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS CONSTRUCTION MANAGER FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
5. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER, THE ENGINEER, THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC SAFETY (505-662-8222) AND THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS (505-662-8273).
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
8. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
9. THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
10. UNLESS OTHERWISE NOTED, ALL ROADWAY STATIONING IS ALONG THE CENTERLINE OF THE ROADWAY RIGHT-OF-WAY.
11. UNLESS OTHERWISE NOTED, STATIONING OF CHANNELS AND/OR PIPES IN DRAINAGE EASEMENTS IS ALONG THE CENTERLINE OF THE CHANNEL/PIPE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER.
14. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS (505-662-8273) TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
15. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE COUNTY OF LOS ALAMOS DEPARTMENT OF PUBLIC WORKS AND THE COUNTY DEPARTMENT OF UTILITIES.
16. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COUNTY OF LOS ALAMOS AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
18. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL (1-800-321-2537), FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
19. CONTRACTOR WILL NOTIFY THE COUNTY OF LOS ALAMOS'S CONSTRUCTION MANAGER (505-662-8273) A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.

GENERAL NOTES (CONTINUED)

- 20. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
21. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
22. THE CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
23. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS, RECORDED PLATS, AND COUNTY OF LOS ALAMOS STANDARD DETAILS. EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
24. THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL AS-BUILT SUBMITTAL TO THE OWNER.
25. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE COUNTY OF LOS ALAMOS DEVELOPMENT PROCESS MANUAL (DPM) AND ORDINANCES.
26. NO WORK SHALL BE PERFORMED IN A FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY OF LOS ALAMOS FLOODPLAIN MANAGER.
27. ANY WORK PERFORMED IN A DRAINAGEWAY, CHANNEL, ARROYO, OR FLOODPLAIN MUST BE PROTECTED BY MEANS OF TEMPORARY PONDING OR DIVERSION OF STORM FLOWS UNTIL SUCH WORK HAS BEEN ACCEPTED BY THE CITY.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF THE WATERLINE PRIOR TO ACCEPTANCE BY THE COUNTY. TESTING SHALL BE PERFORMED TO DEMONSTRATE THE FUNCTIONALITY OF THE SYSTEM. THE COST OF THE TESTING SHALL BE INCIDENTAL TO THE CONTRACT.

SOILS GENERAL NOTES

- 1. UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.

Table with 2 columns: MATERIALS and PERCENT (%) COMPACTION. Rows include: STRUCTURAL FILL IN THE BUILDING AND TANK AREAS (95), SUB BASE FOR SLAB SUPPORT (95), MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD (95), MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS (90), ROAD SUB GRADE (95), SIDEWALK SUB GRADE (95), CURB AND GUTTER SUBGRADE (95).

EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPs) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE INCLUDED IN AND ARE INCIDENTAL TO THE SWPPP BID AMOUNT.
2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES, AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPs IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT.
5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPs IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP.
7. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.
8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED, UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN. NATIVE GRASS SEEDING SHALL BE CLASS A SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION.
9. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
13. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPs IDENTIFIED IN THE APPROVED SWPPP.

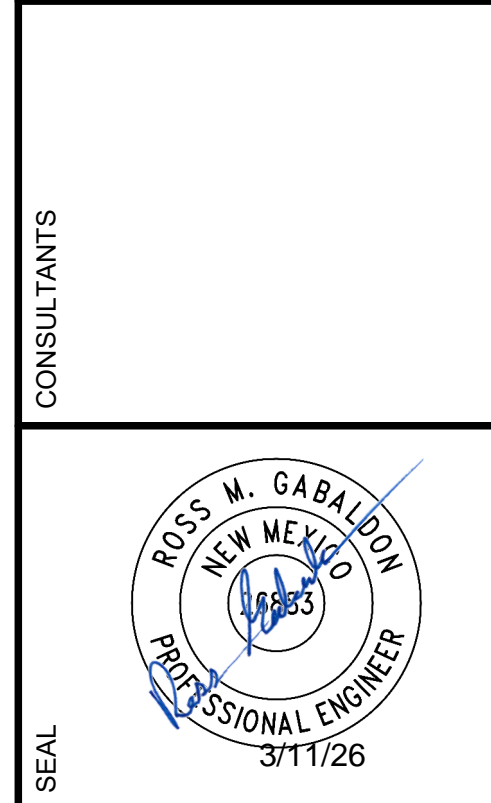
WATER AND WASTEWATER GENERAL NOTES

- 1. WATER/SEWER LINES SHALL BE PLACED IN SEPARATE TRENCHES A DISTANCE OF A MINIMUM OF 10 FEET APART HORIZONTALLY FROM EDGE OF PIPE. THE WATER LINE SHALL BE PLACED A MINIMUM OF 1.5 FEET HIGHER IN CLEARANCE BETWEEN PIPE THAN THE SEWER. AT ALL CROSSINGS OF WATER AND SEWER LINES, THE WATER LINE SHALL BE A MINIMUM OF 1.5 HIGHER THAN THE SEWER OR THE SEWER LINE SHALL BE C-900 PRESSURIZED PIPE.
2. ALL MAIN LINE UTILITIES MUST HAVE COLOR CODED TRACER WIRE.
3. FOR PRESSURE WATER CONNECTIONS TO EXISTING LINES, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE RECEIVED AN APPROVED PENETRATION PERMIT FROM THE DEPARTMENT OF PUBLIC UTILITIES.
4. VALVE BOXES SHALL BE BROUGHT TO SURFACE ELEVATION UPON COMPLETION OF SURFACE COURSE OF PAVEMENT. SQUARE CONCRETE COLLARS SHALL BE CONSTRUCTED TO SURFACE ELEVATIONS.
5. FLUSHING OF WATER LINES SHALL BE METERED AND REPORTED TO THE DEPARTMENT OF PUBLIC UTILITIES CONSTRUCTION MANAGER ON A BIWEEKLY BASIS. PREFERENCE FOR DISPOSAL IS (1) ON AVAILABLE LAND SURFACE OR (2) IN STORM SEWERS. DISPOSAL METHOD SHALL BE DISCUSSED WITH INSPECTOR.
6. FLUSHING, DISINFECTION AND TESTING OF WATERLINES SHALL BE COORDINATED WITH THE COUNTY OF LOS ALAMOS UTILITY INSPECTOR.
7. ALL DRESSER-TYPE COUPLINGS FOR WATER LINES SHALL BE STAINLESS STEEL, WITH STAINLESS STEEL BOLTS.
8. ALL MEGALUG-TYPE JOINTS FOR WATER LINE SHALL BE CONNECTED WITH STAINLESS STEEL BOLTS.
9. ALL FLANGE TO FLANGE CONNECTIONS FOR WATER LINE, IF UNDERGROUND, SHALL BE CONNECTED WITH STAINLESS STEEL BOLTS.

WATER AND WASTEWATER GENERAL NOTES (CONTINUED)

- 10. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF LOS ALAMOS CONSTRUCTION STANDARDS AND THESE PLANS.
11. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ADEQUATELY SUPPORT AND PROTECT EXISTING UTILITIES AFFECTED BY THE CONTRACTOR'S TRENCHING ACTIVITY. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE PROMPT REPAIR BY THE RESPECTIVE UTILITY AND SHALL BEAR THE COST OF REPAIRS.
12. THE COUNTY AND ENGINEER OF LOS ALAMOS SHALL APPROVE MATERIAL SUBMITTALS PRIOR TO CONSTRUCTION.
13. PRIOR TO THE WATER/SEWER LINE INSTALLATION, THE FOLLOWING CONDITIONS WILL OCCUR:
A. THE WATER/SEWER LINE ROUTE WILL BE CLEARED AND GRUBBED AND THEN GRADED TO PLAN ELEVATION.
B. THE WATER/SEWER LINE WILL BE STAKED WHEN OUTSIDE AN AREA WITH CURB AND GUTTER.
14. ALL LOT CORNERS WILL BE STAKED PRIOR TO SERVICE LINE INSTALLATION. IF THE STREET HAS CURB AND GUTTER IT WILL BE INSTALLED PRIOR TO THE WATER LINE INSTALLATION UNLESS OTHERWISE APPROVED BY THE COUNTY OF LOS ALAMOS. IF A STREET IS NOT DESIGNED WITH CURB AND GUTTER AND HAS A SANITARY SEWER LINE, THEN THE TRENCHES TO BE BACKFILLED AND COMPACTED AND TESTED BEFORE THE WATER LINE INSTALLATION.
15. A MECHANICAL RESTRAINT SYSTEM AS SHOWN IN DRAWING C-501 SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINT.
16. WATER FROM FLUSHING MAINS IS NOT ALLOWED TO BE PUMPED INTO SANITARY SEWER MANHOLES.
17. THE COUNTY OF LOS ALAMOS UTILITIES OPERATIONS DIVISION (505-662-8157) SHALL BE THE ONLY PERSONNEL AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC. FOR CONSTRUCTION PURPOSES. ALL SHUTOFFS MUST BE COORDINATED SEVEN (7) DAYS PRIOR TO PROPOSED SHUTOFF. CONTACT THE COUNTY'S PROJECT MANAGER AT 505-662-8147.
18. THE CONTRACTOR SHALL PROVIDE A PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED SEVEN (7) DAYS BEFORE TESTING OPERATIONS BEGIN.
19. LOS ALAMOS COUNTY STANDARD DETAIL GATE VALVE. GATE VALVE TO MATCH PIPELINE DESIGN PRESSURE.

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LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

Table with 4 columns: NO., REV., DATE, DESCRIPTION. Contains a grid for revision tracking.

PROJECT NO: 22-600-894-03
DESIGNED BY: RMG
DRAWN BY: STAFF
CHECKED BY: RMG
DATE: MARCH 2026

SHEET TITLE
GENERAL NOTES

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).
SHEET NO: G-002

3/11/2026 M:\MSD\20-600-894-032\_Disciplines\_SHEETS8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-003.dwg

ABBREVIATIONS

STANDARD ABBREVIATIONS

Table of standard abbreviations including AP (ANALYSIS POINT), BC (BEGIN CURVE), BCR (BEGIN CURB RETURN), BK (BOOK), BLDG (BUILDING), BM (BENCH MARK), BOP (BEGINNING OF PROJECT), BVC (BEGIN VERTICAL CURVE), BW (BASE OF WALL), CATV (CABLE TV LINE), CB (CATCH BASIN), CF (CURB FACE), CG (CURB AND GUTTER), CL (CENTERLINE), CMP (CORRUGATED METAL PIPE), CO (CLEAN OUT), CONC (CONCRETE), CY (CUBIC YARDS), DEFLECT (DEFLECT), DI (DRAINAGE UTILITY EASEMENT), DI (DROP INLET), DIA (DIAMETER), Δ (DELTA), EA (EACH), EC (END CURVE), ECR (END CURB RETURN), EL (ELEVATION), EOP (END OF PROJECT), EP (EDGE OF PAVEMENT), ESMT (EASEMENT), EVC (END VERTICAL CURVE), EW (EACH WAY), EXIST (EXISTING), FF (FINISH FLOOR), FG (FINISH GRADE), FH (FIRE HYDRANT), FL (FLOW LINE), FOC (FACE OF CURB), FP (FINISHED PAD), G (GAS), GM (GAS METER), GV (GATE VALVE), HORIZ (HORIZONTAL), INT (INTERSECTION), INV (INVERT), INV EL (INVERT ELEVATION), LF (LINEAR FEET), LP (LIGHT POLE), LT (LEFT), MH (MANHOLE), NG (NATURAL GROUND), OC (ON CENTER), PB (PULL BOX), PC (POINT OF CURVATURE), PCC (POINT OF COMPOUND CURVATURE), PG (PAGE), PGL (PROFILE GRADE LINE PER TYPICAL SECTION), PI (POINT OF INTERSECTION), PL (PROPERTY LINE), PRC (POINT OF REVERSE CURVATURE), PT (POINT OF TANGENCY), PUE (PUBLIC UTILITY EASEMENT), PVC (POLYVINYL CHLORIDE PIPE), PVMT (PAVEMENT), RAD (RADIUS), RD (REINFORCED CONCRETE PIPE), REF (ROOF DRAIN), RT (REFERENCE), R/W,ROW (RIGHT), S (RIGHT-OF-WAY), SAS (SLOPE), SD (SANITARY SEWER LINE), SF (STORM DRAIN), STA (SQUARE FEET), STD (STATION), SW (STANDARD), SW (SIDEWALK), SY (SQUARE YARDS), T (TANGENT), TA (TOP OF ASPHALT), TAC (TOP OF ASPHALT CURB), TBC (TOP BACK OF CURB), TC (TOP OF CONCRETE), TEL (TELEPHONE LINE, RISER OR BOX), TP (TOP OF PIPE), TRANS (TRANSVERSE), TW (TOP OF WALL), TYP (TYPICAL), UE (UNDERGROUND ELECTRICAL LINE), UT (UNDERGROUND TELEPHONE LINE), VC (VERTICAL CURVE), VERT (VERTICAL), VPI (VERTICAL POINT OF INTERSECTION WATERLINE), W (WATER METER), WM (WATER SURFACE ELEVATION), WSEL (WATER VALVE)

GENERAL ABBREVIATIONS

Table of general abbreviations including Ø (DIAMETER), # (NUMBER), & (AND), @ (AT), C (CENTERLINE), A/C (AIR CONDITIONING), AB (ANCHOR BOLT), ABND (ABANDON OR ABANDONED), ADDL (ADDITIONAL), ADJ (ADJUSTABLE, ADJUST), ADPT (ADAPTER), AFG (ABOVE FINISHED GRADE), AHU (AIR HANDLING UNIT), AL (ALUMINUM), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), APPROX (APPROXIMATE (LY)), AR (ACID RESISTANT), ARCH (ARCHITECT (URAL) (URE)), ARND (AROUND), ASP (ACTIVATED SLUDGE PUMP), ASPH (ASPHALT), ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS), ATC (AUTOMATIC TEMPERATURE CONTROL), AUTO (AUTOMATIC), AUX (AUXILIARY), AWWA (AMERICAN WATER WORKS ASSOCIATION), AVG (AVERAGE), B&C (BOX AND COVER), BFP (BELT FILTER PRESS), BHP (BRAKE HORSEPOWER), BF (BLIND FLANGE), BLDG (BUILDING), BLW (BELOW), BM (BENCHMARK), BOT (BOTTOM), BOW (BOTTOM OF WALL), BRG (BEARING), BTU (BRITISH THERMAL UNIT), BTWN (BETWEEN), BYND (BEYOND), C (CENTIGRADE), CAP (CAPACITY), CIRC (CIRCUMFERENTIAL), CIT (CITRIC ACID), CFT (CUBIC FEET PER MINUTE), CFS (CUBIC FEET PER SECOND), CJ (CONSTRUCTION JOINT), CLR (CLEAR), CMU (CONCRETE MASONRY UNIT), CO (CLEAN OUT), COL (COLUMN), COMB (COMBINATION), COMP (COMPRESSOR), CON (CONCENTRIC), CONC (CONCRETE), CONN (CONNECTION), CONST (CONSTRUCTION), CONT (CONTINUE (D, S, CONTINUOUS)), CTJ (CONTROL JOINT), CTR (CENTER (ED)), CU FT (CUBIC FOOT (FEET)), CWO (CHAIN WHEEL OPERATOR), DCO (DOUBLE CLEAN OUT), DCT BK (DUCT BANK), DTL (S) (DETAIL (S)), DHDPE (DOUBLE-WALLED HDPE), DI (DUCTILE IRON), DIA (DIAMETER), Δ (DELTA), DIAG (DIAGONAL), DIFF (DIFFUSER), DIV (DIVISION), DN (DOWN), DPVC (DOUBLE-WALLED PVC), DRN (DRAIN), DRNG (DRAWING), DWL (DOWEL(S)), E (EASTING), E & I (ELECTRICAL & INSTRUMENTATION), EA (EACH), ECC (ECCENTRIC), EF (EACH FACE), EL (ELEVATION), ELEC (ELECTRIC(AL)), EMERG (EMERGENCY), ENGR (ENGINEER), EOP (EDGE OF PAVEMENT), EQ (EQUAL), EQPT (EQUIPMENT), EQUIV (EQUIVALENT), ES (EACH SIDE), ESEW (EMERGENCY SHOWER AND EYEWASH), ETC (ETCETERA), EW (EACH WAY), EXP (EXPANSION), EXP JT (EXPANSION JOINT), EXIST (EXISTING), EXT (EXTERIOR), EXT D (EXTENDED), F (FAHRENHEIT), FAC (FACILITY), FC (FACE OF CURB), FD (FLOOR DRAIN), FE (FLANGED END), FG (FINISH GRADE), FIG (FIGURE), FIS (FEEDER ISOLATION SWITCH GEAR), FL (FLOOR), FLG (FLOORING), FM (FORCE MAIN), FRP (FIBERGLASS REINFORCED PLASTIC), FS (FAR SIDE), FT (FEET/FOOT), FTG (FOOTING/FITTING), GAL (GALLON), GALVS (GALVANIZED STEEL)

GENERAL ABBREVIATIONS (CONT)

Table of general abbreviations (continued) including GPD (GALLONS PER DAY), GPM (GALLONS PER MINUTE), GRAV (GRAVITY), GSKT (GASKET), GRGTG (GRATING), HAS (HEADED ANCHOR STUD), HB (HOSE BIB), HEX (HEXAGON), HGT (HEIGHT), HORIZ (HORIZONTAL), HP (HIGH POINT (HORSEPOWER)), HS (HIGH SERVICE (HIGH STRENGTH)), HWA (HIGH WATER ALARM), HWL (HIGH WATER LEVEL), HWO (HAND WHEEL OPERATOR), HYD (HYDRANT), HZ (HERTZ), I & C (INSTRUMENTATION & CONTROL), ID (INSIDE DIAMETER), INV EL (INVERT ELEVATION), INF (INSIDE FACE), IN (INCH), INT (INTERIOR), INV (INVERT), IRR (IRRIGATION), JB (JUNCTION BOX), JCT (JUNCTION), JT (JOINT), K (KELVIN), KWH (KILOWATT HOUR), LAT (LATITUDE), LB (POUND), LF (LINEAL FEET), LLH (LONG LEG HORIZONTAL), LLV (LONG LEG VERTICAL), LONG (LONGITUDE), LP (LOW POINT (LOW PRESSURE)), LNTL (LINTEL), LR (LONG RADIUS), LWA (LOW WATER ALARM), LWL (LOW WATER LEVEL), MAG (MAGNETIC), MAX (MAXIMUM), MCC (MOTOR CONTROL CENTER), MEAS (MEASURE), MFD (MANUFACTURED), MFM (MICRO FILTER EQUIPMENT MANUFACTURER), MFG (MANUFACTURING), MFR (MANUFACTURER), MGL (MILLIGRAMS PER LITER), MGD (MILLION GALLONS PER DAY), MH (MANHOLE), MIN (MINIMUM), MISC (MISCELLANEOUS), MJ (MECHANICAL JOINT), MO (MOTOR OPERATOR), MON (MONUMENT), MPH (MILES PER HOUR), MTD (MOUNTED), N (NORTHING), NBS (NATIONAL BUREAU OF STANDARDS), NEC (NATIONAL ELECTRICAL CODE), NEMA (NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), NOT IN CONTR (NOT IN CONTRACT), NO. (NUMBER), NOS (NATIONAL OCEANOGRAPHIC SURVEY), NS (NON-SHRINK), NTS (NOT TO SCALE), O/E (OR EQUAL), OC (ON CENTER), OD (OUTSIDE DIAMETER), OF (OUTSIDE FACE), OH (OVERHEAD (DOOR)), OPNG(S) (OPENING(S)), OPP (OPPOSITE), OPP HD (OPPOSITE HAND), OPT (OPTIONAL), PC (POINT OF CURVE (ATURE)), PDSH (PRESSURE DIFFERENTIAL SENSOR (HIGH)), PE (PLAIN END), PERF (PERFORATED), PI (POINT OF INTERSECTION), PLT (PLANT), PNEU (PNEUMATIC), PPM (PARTS PER MILLION), PRESS (PRESSURE), PRIM (PRIMARY), PS (PUMP STATION), PSI (POUNDS PER SQUARE INCH), PT (POINT), QTY (QUALITY OR QUANTITY), R (RISER(S)), R/W (RIGHT-OF-WAY), RAD (RADIUS), RCP (REINFORCED CONCRETE PIPE), RD (ROOF DRAIN), RED (REDUCER), REF (REFERENCE/REFER), REINF (REINFORCE (D, ING)), REQD (REQUIRED), RJ (RESTRAINED JOINT (S)), RPM (REVOLUTIONS PER MINUTE), RR (RAILROAD), S (SOUTH), SAS (SANITARY SEWER (GRAVITY)), SD (STORM DRAIN (SEWER)), SHC (SODIUM HYPOCHLORITE), SHT (SHEET), SIM (SIMILAR), SL (SIGNAL LINE), SLV (SLEEVE), SPEC (SPECIFICATION (SPECIFIED)), SPR (SPRING), SQ (SQUARE)

GENERAL ABBREVIATIONS (CONT)

Table of general abbreviations (continued) including STA (STATION), STD (STANDARD), STIF (STIFFENER), STIR (STIRRUP), STRUC (STRUCTURE (S, URAL)), SWD (SIDE WATER DEPTH), SWK (SIDEWALK), SYM (SYMMETRICAL), T (TREAD (S)), T&B (TOP AND BOTTOM), TAN (TANGENCY), TC (TOP OF CURB ELEVATION), TECH (TECHNICAL), TEL (TELEPHONE), TEMP (TEMPERATURE), TM (TELEMETRY OR TIME), TOP (TOP OF PIPE), TOS (TOP OF STEEL), TV (TELEVISION), TYP (TYPICAL), W (WATER LINE), WL (WATER LINE), WWTP (WASTE WATER TREATMENT PLANT)

PIPING MATERIALS

Table of piping materials including BSP (BLACK STEEL PIPE), CI (CAST IRON PIPE), CISP (CAST IRON SOIL PIPE), CMP (CORRUGATED METAL PIPE), CS (CARBON STEEL), CU (COPPER PIPE), DHDP (DOUBLE WALLED HDPE PIPE), DI (DUCTILE IRON PIPE), DPVC (DOUBLE WALLED PVC PIPE), FRP (FIBERGLASS REINFORCED PLASTIC), GALV (GALVANIZED STEEL PIPE), HDPE (HIGH DENSITY POLYETHYLENE), PLYP (POLYETHYLENE PIPE), PVC (POLYVINYL CHLORIDE PIPE), RCP (REINFORCED CONCRETE PIPE), SST (STAINLESS STEEL PIPE), VCP (VITRIFIED CLAY PIPE), WST (WELDED STEEL PIPE)

PIPING NOMENCLATURE

Table of piping nomenclature including BCV (BALL CHECK VALVE), BF (BLIND FLANGE), BFV (BUTTERFLY VALVE), BPRV (BACK PRESSURE REGULATING VALVE), BV (BALL VALVE), COMP JT (COMPRESSION JOINT), CV (CHECK VALVE (AIR CUSHION)), DWV (DRAIN, WASTE, AND VENT), EXP JT (EXPANSION JOINT), FA (FLANGED ADAPTOR), FE (FLANGED END), FH (COUPLING FIRE HYDRANT), FS (FLOOR STAND), GLBV (GLOBE VALVE), GV (GATE VALVE), HFAC (HARNESSED FLANGED ADAPTOR COUPLING), KGV (KNIFE GATE VALVE), MJ (MECHANICAL JOINT), MV (MUD VALVE), PBAV (PLASTIC BALL VALVE), PCV (PRESSURE CONTROL VALVE), PE (PLAIN END), POJ (PUSH ON JOINT), PRV (PRESSURE RELIEF VALVE), PV (PLUG VALVE), PVRV (PRESSURE VACUUM RELIEF VALVE), RJ (RESTRAINED JOINT), SJ (SOLDERED JOINT), SOLV (SOLENOID VALVE), THD (THREADED), TUBV (TRUE UNION BALL VALVE), UN (UNION), VB (VALVE BOX), VC (VICTAULIC COUPLING (SHOULDERED ENDS)), WAP (WALL PIPE), WJ (WELDED JOINT), WP (WELDED PIPE), WSV (WALL SLEEVE)

GENERAL LEGEND

UTILITY LINE STYLES

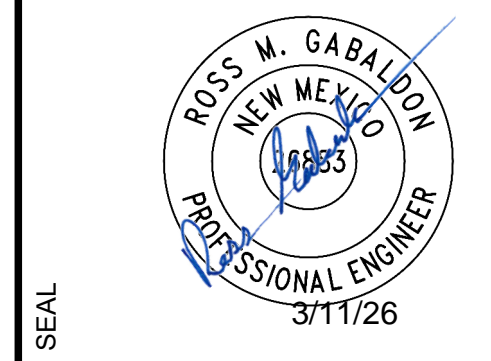
Table of utility line styles including EFF (REUSE WATER LINE), E (UNDERGROUND ELECTRICAL CONDUIT), FM (FORCE MAIN), FO (FIBER OPTIC LINE), G (GAS LINE), UGE (UNDERGROUND ELECTRIC MAIN LINE), OHE (OVERHEAD ELECTRIC LINE), SAS (GRAVITY SANITARY SEWER LINE), SD (STORM DRAIN), TV (UNDERGROUND TELECOMMUNICATIONS), W (WATER LINE), FENCE LINE, CHAIN FENCE

MISCELLANEOUS SYMBOLS

Table of miscellaneous symbols including CONCRETE, MASONRY BLOCK, GROUT, GRAVEL, GRATING, CENTERLINE, STEEL UNLESS NOTED OTHERWISE, EARTH FILL, UNDISTURBED EARTH

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CONSULTANTS



SEAL

PROJECT NAME: LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

Table with columns for REV., DATE, DESCRIPTION, and BY.

Table with project information: PROJECT NO: 22-600-894-03, DESIGNED BY: RMG, DRAWN BY: STAFF, CHECKED BY: RMG, DATE: MARCH 2026

SHEET TITLE: GENERAL NOTES AND ABBREVIATIONS

SHEET NO: G-003

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

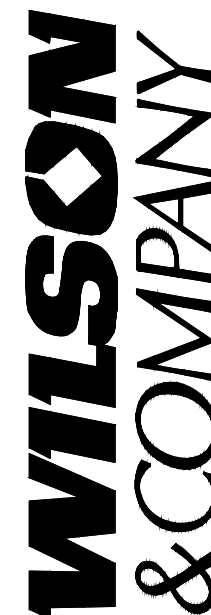
3/12/2026 M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\_PHASE III\01\_GENI268943\_G-004.dwg

ENGINEERS OPINION OF PROBABLE COST - PHASE 3 LAC JEMEZ MTN FIRE PROTECTION					
ITEM NO.	ITEM DESCRIPTION:	UNIT:	QTY:	UNIT PRICE	BID AMOUNT
<b>GENERAL ITEMS</b>					
1	MOBILIZATION/DEMOBILIZATION	LS	1		
2	TRAFFIC CONTROL	LS	1		
3	CONSTRUCTION STAKING, CIP.	LS	1		
4	CONSTRUCTION SURVEY, CIP.	LS	1		
6	RELOCATION OF EXISTING UTILITIES	ALLOW	1		
7	MATERIALS TESTING	ALLOW	1		
8	LABORATORY TESTING	ALLOW	1		
<b>BOOSTER STATIONS</b>					
9	CMU BOOSTER BUILDING, INCL. BUILDING ELECTRICAL, APPURTENANCES, MECHANICAL, AND ALL RELATED ARCHITECTURAL ITEM, CIP	EA	4		
10	CMU BOOSTER BUILDING FOUNDATION, INCL SUBGRADE PREP AND RELATED WORK, CIP	EA	4		
11	RIPRAP SPLASH PADS	SF	64		
12	SITE GRADING, CIP	CY	352		
13	EXCAVATE & DISPOSE OF UNSUITABLE MATERIAL, COMPL.	CY	200		
14	MATERIAL WHEN NOT OBTAINED FROM WITHIN LIMITS OF CONSTRUCTION, COMPL.	CY	100		
15	CHAIN LINK FENCE, INCL. POSTS, HARDWARE & GATES, CIP.	SF	7158		
16	6" THK GRAVEL DRIVE PAD AND SUBGRADE PREP, CIP	SF	711		
17	BOOSTER PUMP SKID 1, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
18	BOOSTER PUMP SKID 2, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
19	BOOSTER PUMP SKID 3, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	EA	1		
20	BOOSTER PUMP SKID 4, INCL. PUMPS, PIPING, FITTINGS, CONTROLS, AND APPURTENANCES, CIP.	LS	1		
21	BOOSTER STATION PIPING, INCL ALL FITTINGS, VALVES, APPURTANANCES AND RELATED ITEMS, CIP	LS	4		
22	8" BACK FLOW PREVENTER, INCL. PIPING, APPURTENANCES, AND VAULT, CIP.	EA	4		
23	2150 CHLORINATOR FOR BOOSTER STATION 4, INCL PIPING, INJECTION QUILL AND ALL APPURTENANCES PER SHEET C-505, CIP	LS	1		
24	CONNECT SITE PIPING TO EXISTING HDPE PIPING, CIP	EA	8		
25	CMP DRAIN PIPE CIP	LF	28		
<b>ELECTRICAL AND FIBER OPTICS</b>					
26	ELECTRICAL SITEWORK - PUMP STATION 1	LS	1		

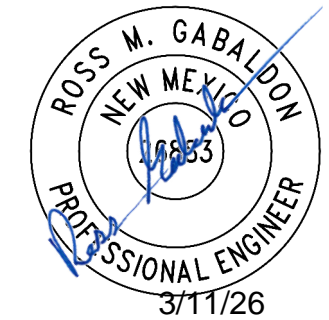
ENGINEERS OPINION OF PROBABLE COST - PHASE 3 LAC JEMEZ MTN FIRE PROTECTION					
ITEM NO.	ITEM DESCRIPTION:	UNIT:	QTY:	UNIT PRICE	BID AMOUNT
27	ELECTRICAL SITEWORK - PUMP STATIONS 2,3,4	LS	3		
28	ELECTRICAL SITEWORK - UPPER RESERVOIR	LS	1		
29	ELECTRICAL PUMP STATIONS 1,2,3,4	LS	4		
30	INSTRUMENTATION - PUMP STATION 1	LS	1		
31	INSTRUMENTATION - PUMP STATIONS 2,3,4	LS	3		
32	INSTRUMENTATION - UPPER RESERVOIR	LS	1		
33	12 STRAND SINGLE-MODE FO BUNDLE	CLF	259		
34	3 - 1+1/4" HDPE INNERDUCT IN EXISTING 4" PVC CONDUIT	CLF	260		
<b>TANK SITE AND SKI AREA</b>					
35	DISINFECTION AND MECHANICAL SCRUBBING OF EXISTING SKI AREA PIPING, PER SHEET C-004	LS	1		
36	DISINFECTION AND MECHANICAL SCRUBBING OF EXISTING SKI AREA TANK, PER SHEET C-004	LS	1		
37	BACK FLOW PREVENTER AND METER, PER DETAIL SHEET C-502, INCL. PIPING AND APPURTENANCES, HOT BOX ENCLOSURE AND PAD, PER SHEET C-502, CIP.	LS	1		
38	CONNECTION TO EXISTING WATER LINE, CIP	EA	3		
<b>SUMMARY</b>					
				SUB TOTAL	
				NMGRT 7.0625%	
				<b>TOTAL</b>	

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

CONSULTANTS



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FAX: 505-898-8501  
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SEAL  
ROSS M. GABALDON  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26

PROJECT NAME

**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03

DESIGNED BY: RMG

DRAWN BY: STAFF

CHECKED BY: RMG

DATE: MARCH 2026

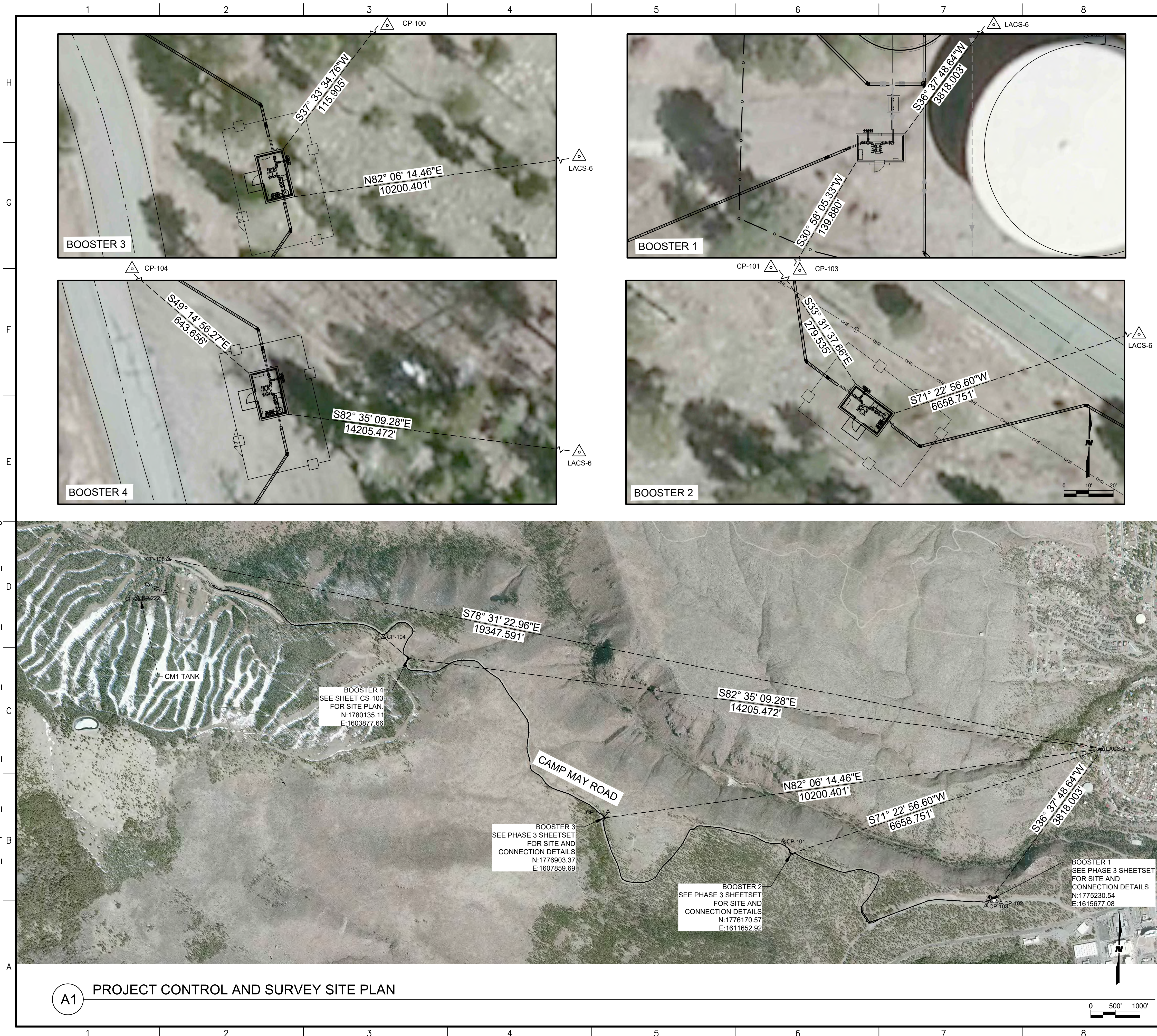
SHEET TITLE

QUANTITIES

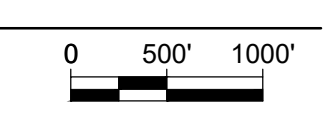
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G-004

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**A1** PROJECT CONTROL AND SURVEY SITE PLAN



**SITE DESCRIPTION:**  
 CAMP MAY ROAD LOCATED BETWEEN CAMP MAY TRAIL AND PAJARITO MOUNTAIN SKI AREA, COUNTY OF LOS ALAMOS, STATE OF NEW MEXICO.

**GENERAL SURVEY NOTES:**

- THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.
- HORIZONTAL AND VERTICAL BASED ON NMDOT CONTROL MAP FOR LOS ALAMOS COUNTY, NM STATE PLANE CENTRAL ZONE (SCALED TO GROUND), NAD 83, NAVD 88. SCALED TO GROUND AROUND (0,0) USING A COMBINED GRID-TO-GROUND FACTOR OF 1.0004460530.

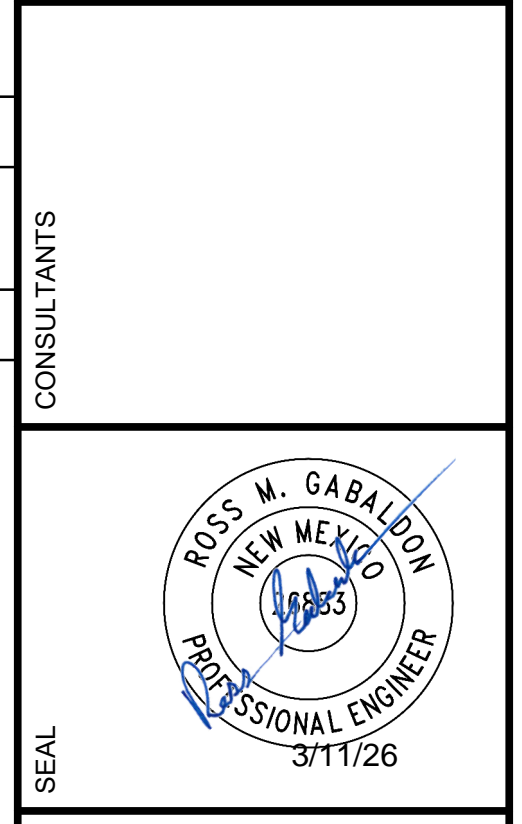
**PROJECT BENCHMARK:**  
 BENCHMARK USED IS A BRASS SURVEY DISK STAMPED "BC 28 RESET PS 5218" SET ON THE WEST SIDE OF EAST SIDEWALK AT 1020 48TH STREET, NAVD 88. ELEVATION = 7406.36'

**TEMPORARY BENCHMARK (TBM):**  
 TEMPORARY BENCHMARK IS A REBAR WITH ALUMINUM CAP STAMPED "CP-100". LOCATED AS SHOWN ON PLAN. ELEVATION = 8514.74'

**CONTROL POINT DATA:**

BRASS CAP "BC 28 RESET PS 5218" N: 1778303.4780 E: 1617974.5080 ELEV: 7406.360	CONTROL POINT: CP-100 N: 1777013.542 E: 1607936.875 ELEV: 8514.744
CONTROL POINT: CP-104 N: 1603383.923 E: 1780573.413 ELEV: 9066.965	CONTROL POINT: CP-108 N: 1782153.141 E: 1599013.776 ELEV: 9228.944

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 FAX: 505-898-8501  
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**PROJECT NAME**  
 LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

REV.	DATE	DESCRIPTION	BY

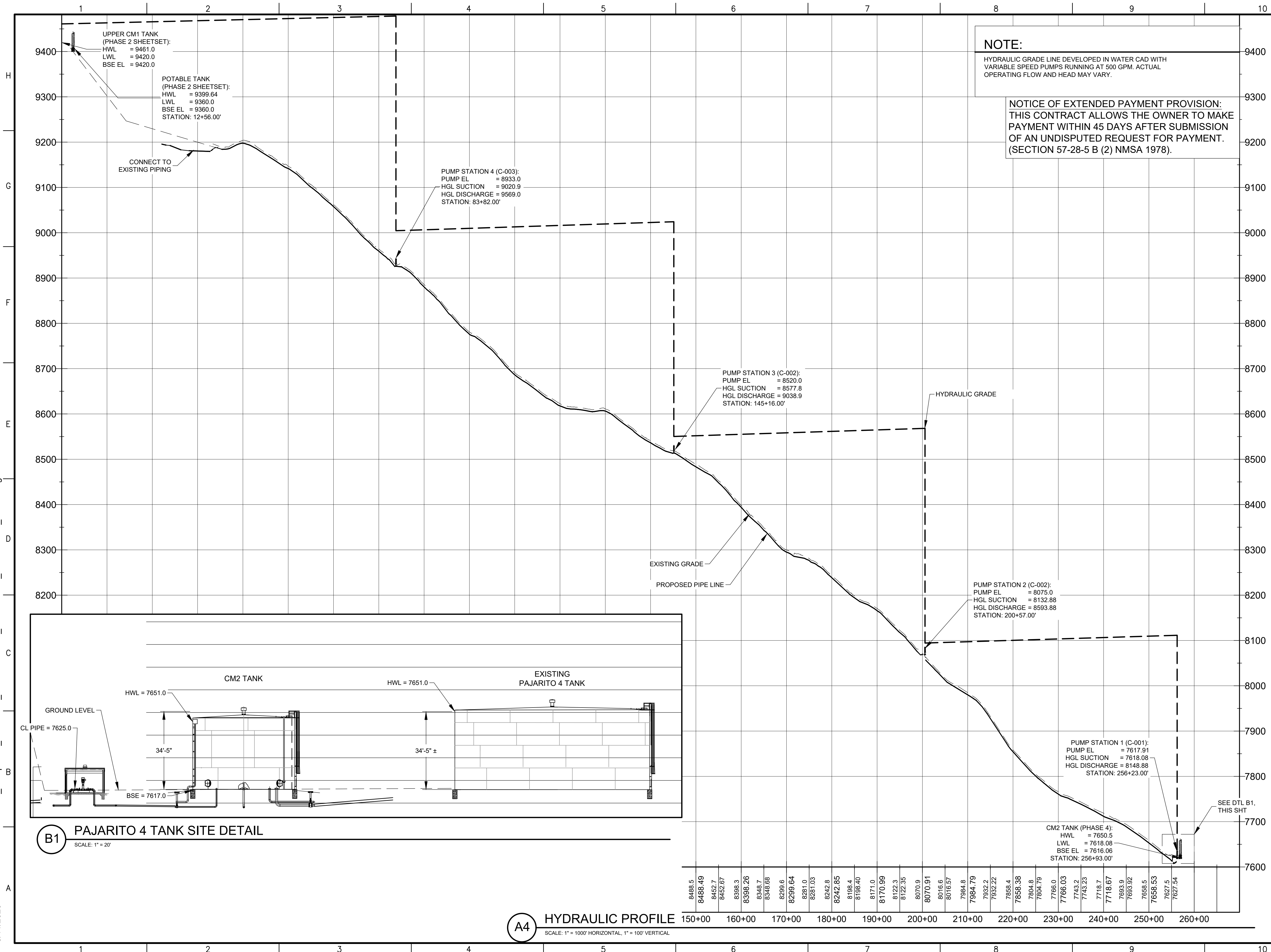
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROJECT CONTROL AND SURVEY PLAN**

SHEET NO:  
**G-005**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-006.dwg



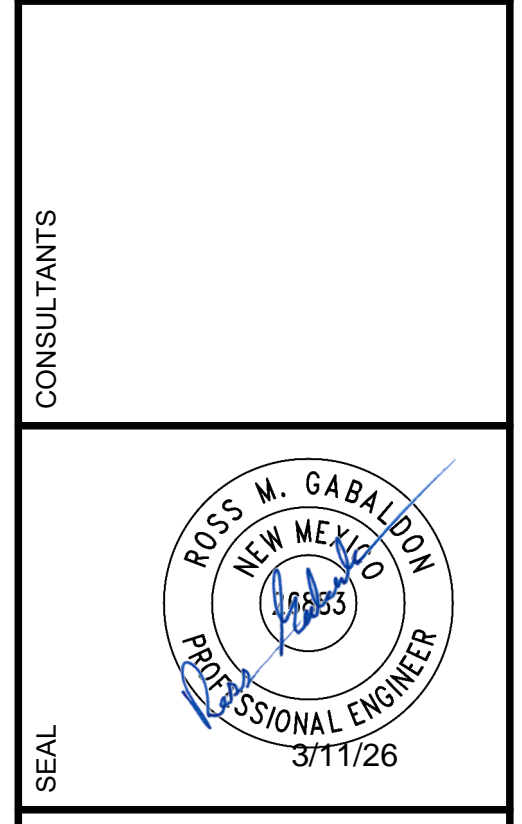
**B1** PAJARITO 4 TANK SITE DETAIL  
 SCALE: 1" = 20'

**A4** HYDRAULIC PROFILE  
 SCALE: 1" = 1000' HORIZONTAL, 1" = 100' VERTICAL

**NOTE:**  
 HYDRAULIC GRADE LINE DEVELOPED IN WATER CAD WITH VARIABLE SPEED PUMPS RUNNING AT 500 GPM. ACTUAL OPERATING FLOW AND HEAD MAY VARY.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

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 FAX: 505-898-8501  
 www.wilsonco.com



PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

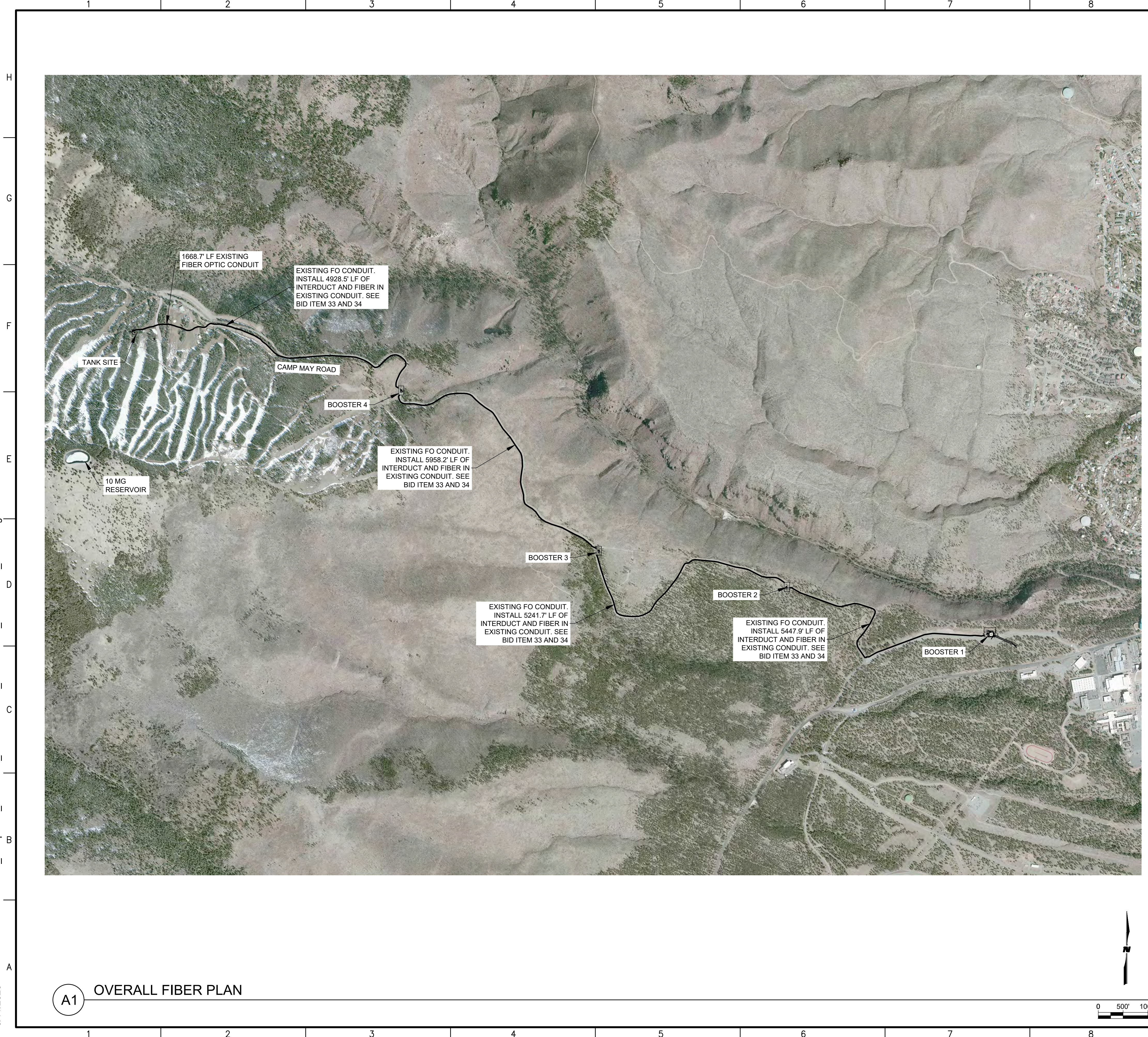
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

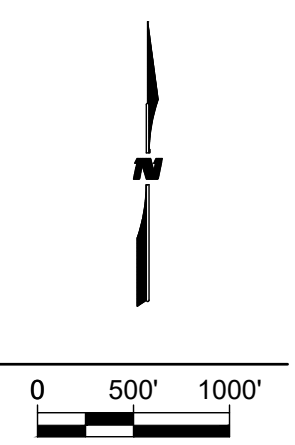
SHEET TITLE  
**HYDRAULIC PROFILE**

SHEET NO:  
**G-006**

3/11/2026 M:\MSD\20-600-894-0312\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\01\_GEN\268943\_G-007.dwg



**A1** OVERALL FIBER PLAN

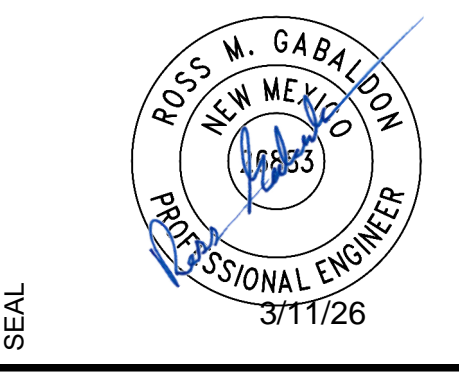


**GENERAL NOTES:**

1. ALL EXISTING AND NEW UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
2. MINIMUM 1.5' CLEARANCE FOR CROSSINGS BETWEEN PIPELINE AND EXISTING UTILITIES, OR USE LEANFILL.
3. PROTECT EXISTING FENCING AT TANK FROM DAMAGE, UNLESS OTHERWISE NOTED ON PLAN.
4. CONTRACTOR TO PROVIDE EXCAVATION PLAN FOR RELEASE TO LOS ALAMOS. BACKFILL SHALL MEET SELECT FILL REQUIREMENTS.
5. ALL SELECT FILL SHALL MEET LOS ALAMOS COUNTY STD REQUIREMENTS AND THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION AS CONTAINED IN THE CONTRACT DOCUMENTS.
6. ALL BACKFILL AROUND THE BOOSTER STATION SHALL BE COMPACTED TO A MINIMUM 95% COMPACTION PER ASTM D 1557. THE 6-FT NEAREST TO THE BUILDING MEET STRUCTURAL FILL REQUIREMENTS.
7. BEST AVAILABLE INFORMATION ON SUB-SURFACE CONDITIONS IS PROVIDED IN THE GEOTECHNICAL REPORT. CONTRACTOR SHALL VERIFY EXISTING SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION. SHOULD DIFFERING SITE CONDITIONS EXIST THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER IMMEDIATELY PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. ALL BURIED PIPE FLANGES SHALL HAVE STAINLESS STEEL BOLTS, COATED WITH COAL TAR EPOXY.

**WILSON & COMPANY**  
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 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

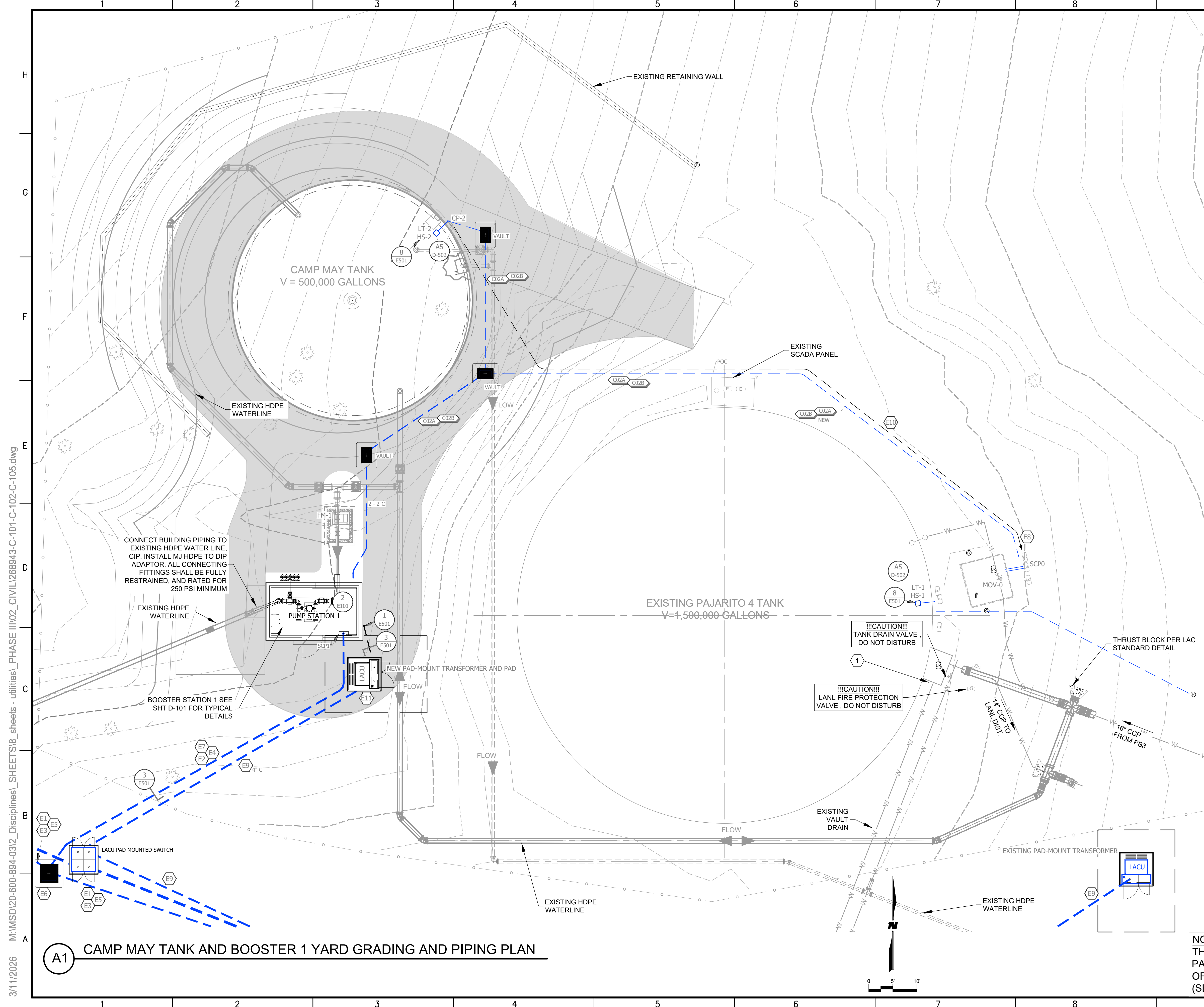
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**OVERALL FIBER  
 PLAN**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

SHEET NO:  
**G-007**



**GENERAL NOTES**

1. CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
2. CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM TANK AND BUILDING FOUNDATION.
3. COUNTY HAS AVAILABLE GRADING MATERIAL.
4. REFER TO GENERAL NOTES ON DRAWINGS E001
5. ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
6. EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
7. MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
8. REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- E1 FLUSH TO CLEAN EXISTING 4" VAULT DRAIN LINE TO RESTORE FLOW.
- E2 PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E3 PROVIDE 4" C 24" BFG MIN W/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E4 PROVIDE FOS12 FIBER BUNDLE
- E5 PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- E6 EXISTING 4" C INSTALLED IN PREVIOUS PHASE
- E7 COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- E8 PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT
- E9 PROVIDE 20A1P BRANCH CB FOR EXISTING PANEL BOARD
- E10 LOCATION AND ROUTE OF EXISTING CONDUCTORS IS UNKNOWN AND NOT VERIFIED - ROUTE SHOWN IS ASSUMED
- E11 PROVIDE 2#10 & #10G - 1" C 24" MIN BELOW FINISH GRADE
- E12 PROVIDE CIP CONCRETE OR FORMED POLYMER RESIN CONCRETE TRANSFORMER PAD w/ BLOCK-OUTS PER UTILITY REQUIREMENTS

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CONSULTANTS

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 28-600-894-03  
 DESIGNED BY: BJA/RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RBM/A  
 DATE: MAY 08 2028  
 SHEET TITLE

**BOOSTER 1 SITE  
 GRADING AND  
 PIPING**

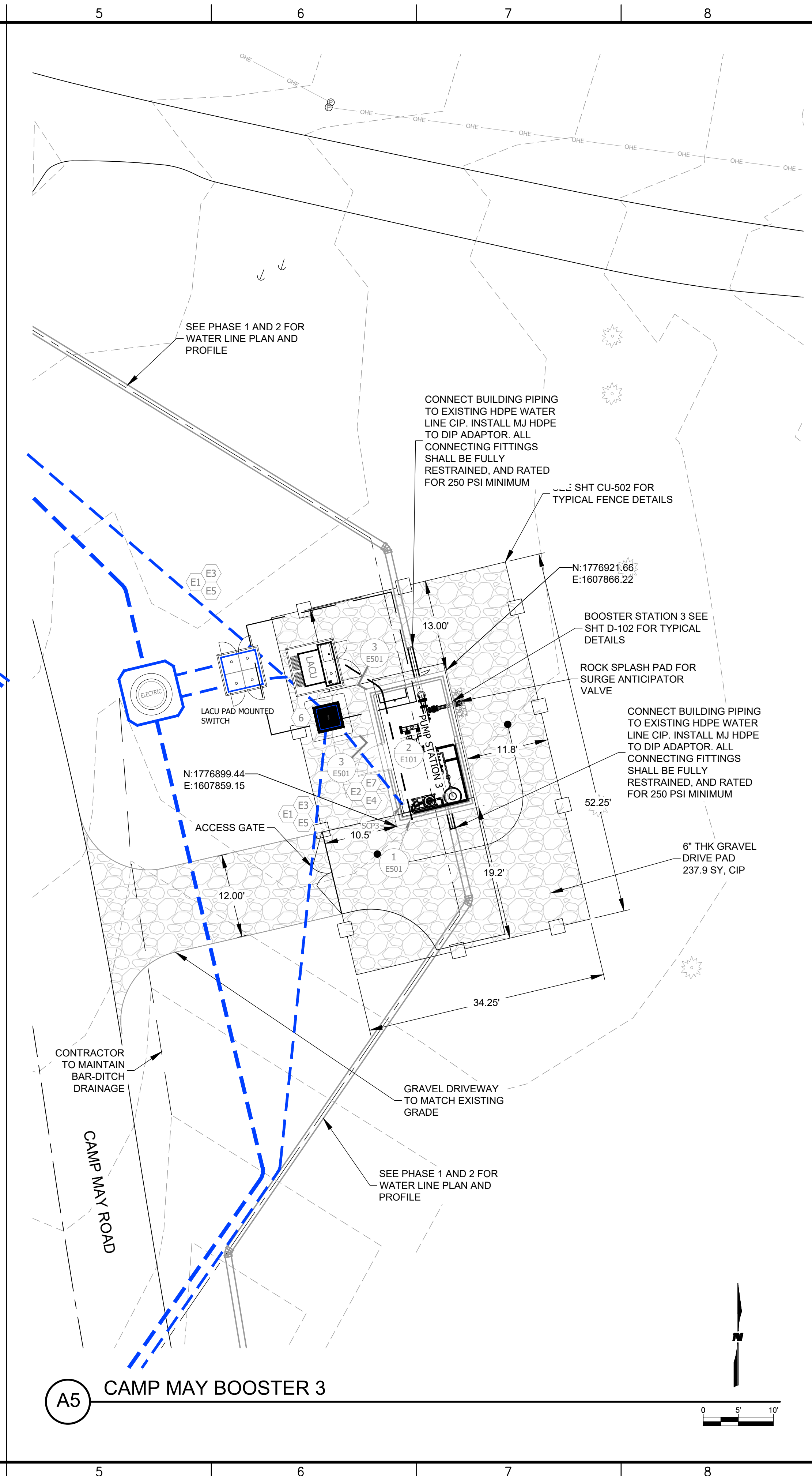
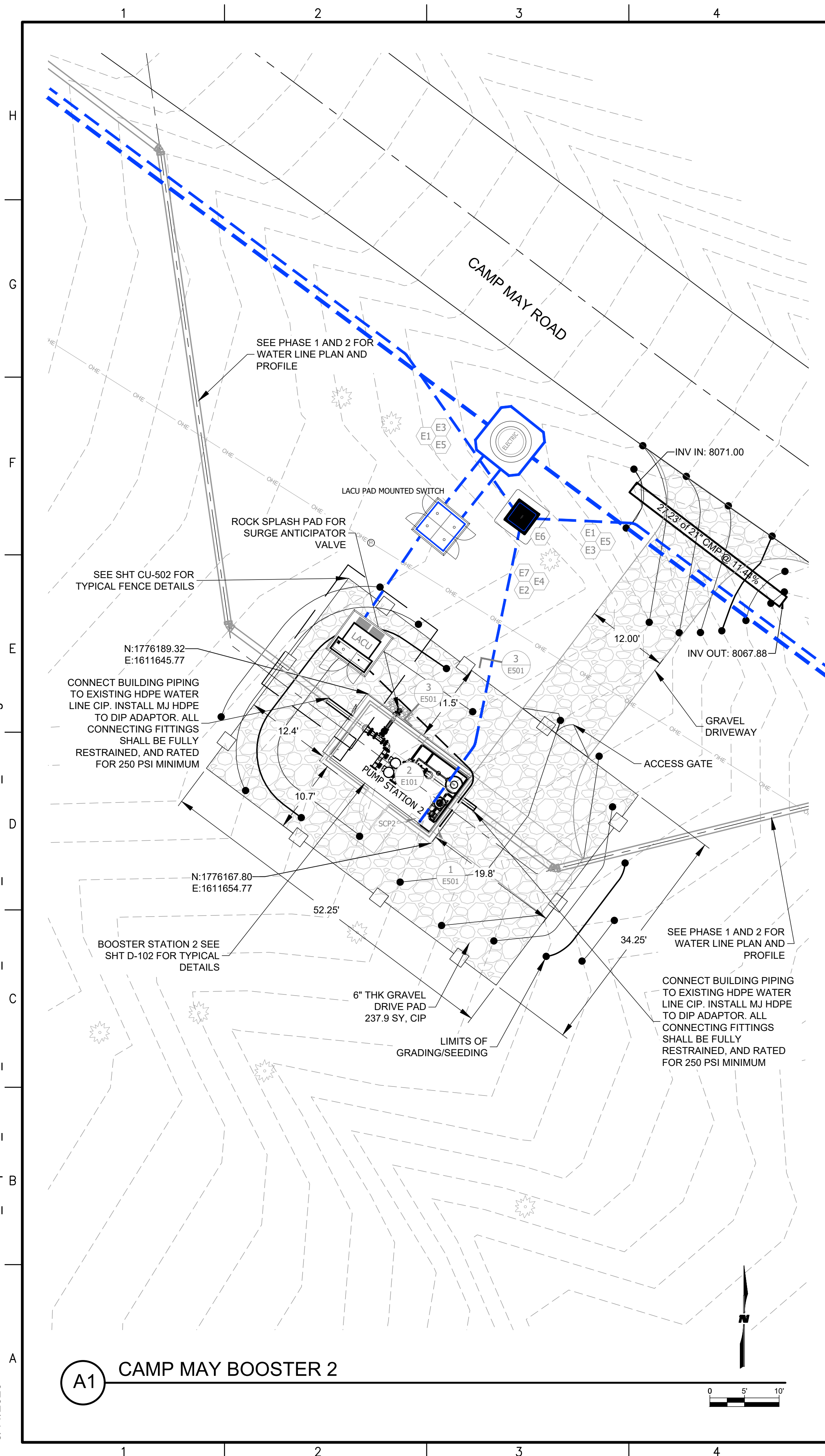
SHEET NO: **C-001**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets\_utilities\_PHASE III\02\_CIVIL\288943-C-101-C-102-C-105.dwg

**A1 CAMP MAY TANK AND BOOSTER 1 YARD GRADING AND PIPING PLAN**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets\_utilities\_PHASE III\02\_CIVIL\56021400\_CG-102.dwg



**GENERAL NOTES**

- CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
- CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM BUILDING FOUNDATION.
- REFER TO GENERAL NOTES ON DRAWINGS E001
- ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
- EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
- REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- E1 PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E2 PROVIDE 4"C 24" BFG MIN w/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- E3 PROVIDE FOS12 FIBER BUNDLE
- E4 PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- E5 EXISTING 4"C INSTALLED IN PREVIOUS PHASE
- E6 COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- E7 PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT

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CONSULTANTS

ROSS M. GABALDON  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 3/11/26

SEAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

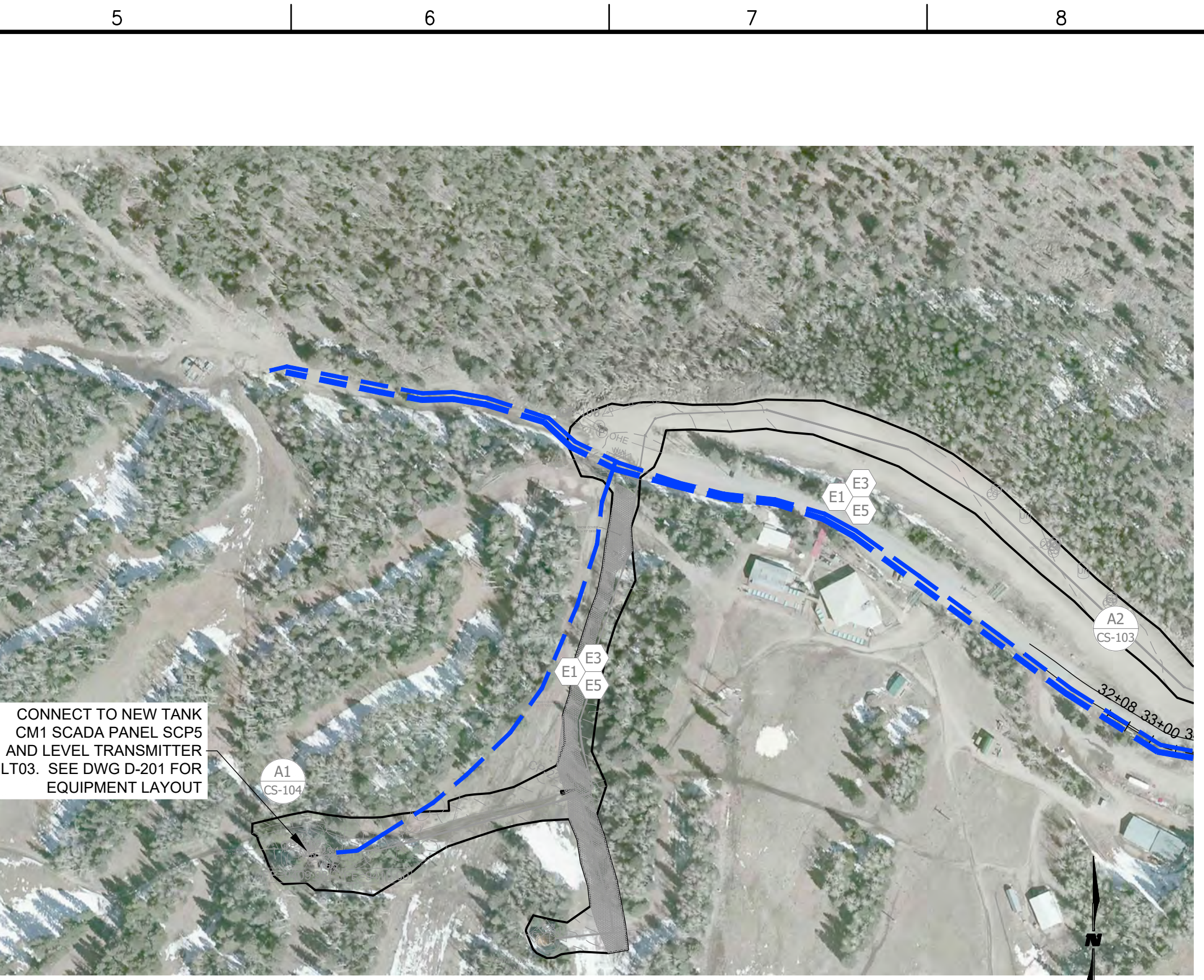
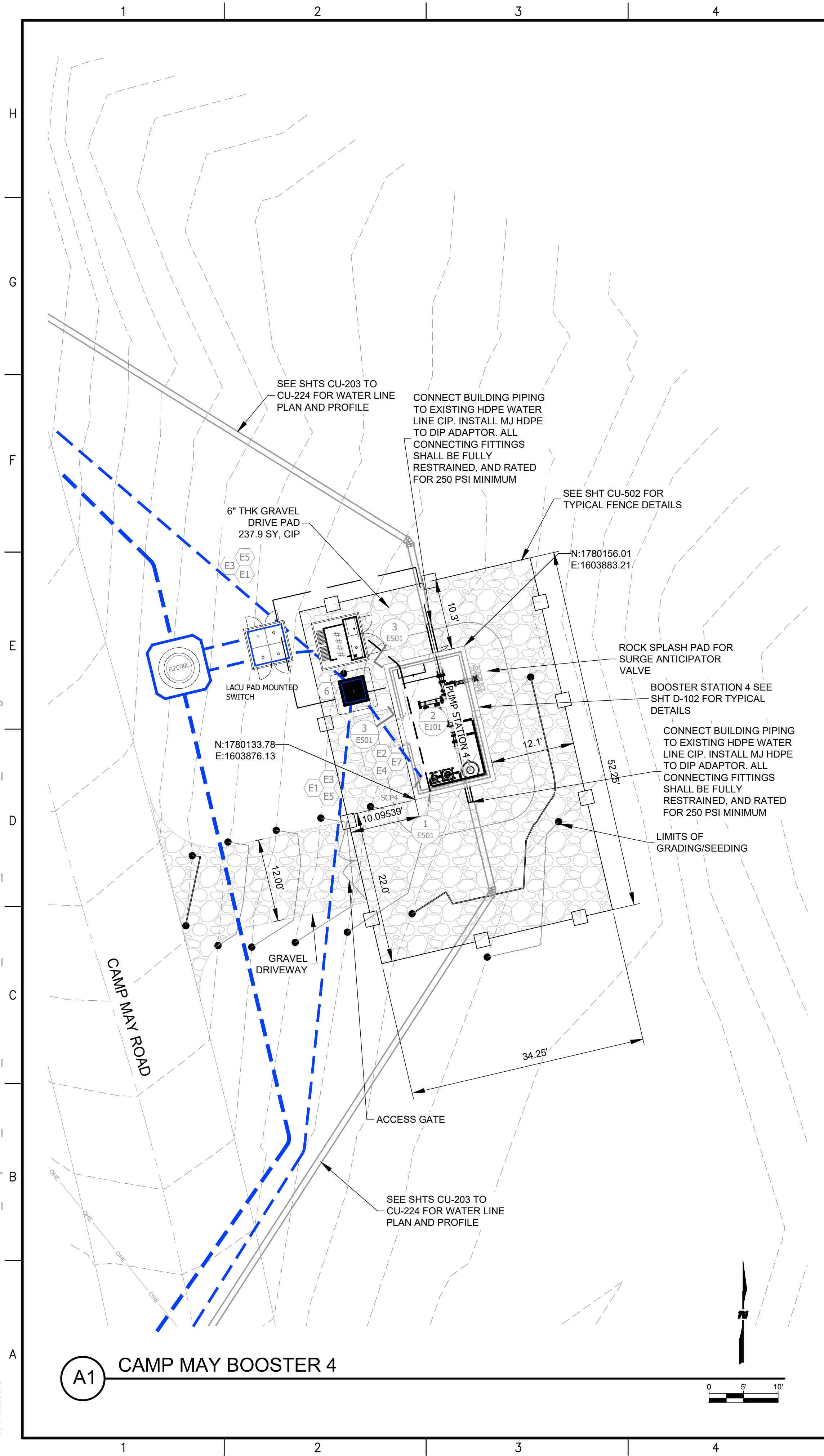
SHEET TITLE  
**BOOSTER 2 AND 3 SITE GRADING AND PIPING PLAN**

SHEET NO:  
**C-002**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

ELECTRICAL SEAL  
 JAMES L. WETTERS  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 3/11/2026

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\Sheets - utilities\_PHASE III\02\_CIVIL\66021400\_CG-103.dwg



**E5** FIBER OPTIC PLAN

**GENERAL NOTES**

- CONTRACTOR SHALL PERFORM SEEDING FOR ALL DISTURBED AREAS THAT ARE NOT PAVED OR IMPROVED.
- CONTRACTOR SHALL CONSTRUCT DRAINAGE IMPROVEMENTS TO ACTIVELY DRAIN WATER AWAY FROM BUILDING FOUNDATION.
- COUNTY HAS AVAILABLE GRADING MATERIAL.
- REFER TO GENERAL NOTES ON DRAWINGS E001
- ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
- EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
- REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

**KEYNOTES**

- (E1) PROVIDE 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E2) PROVIDE 4"X 24" BFG MIN w/ 3 - 1+1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E3) PROVIDE FOS12 FIBER BUNDLE
- (E4) PROVIDE 2 - FOS12 FIBER BUNDLES THROUGH ONE INNERDUCT
- (E5) EXISTING 4"C INSTALLED IN PREVIOUS PHASE
- (E6) COMMUNICATIONS VAULT INSTALLED IN PREVIOUS PHASE
- (E7) PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT

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CONSULTANTS

ROSS M. GABALDON  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 3/11/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

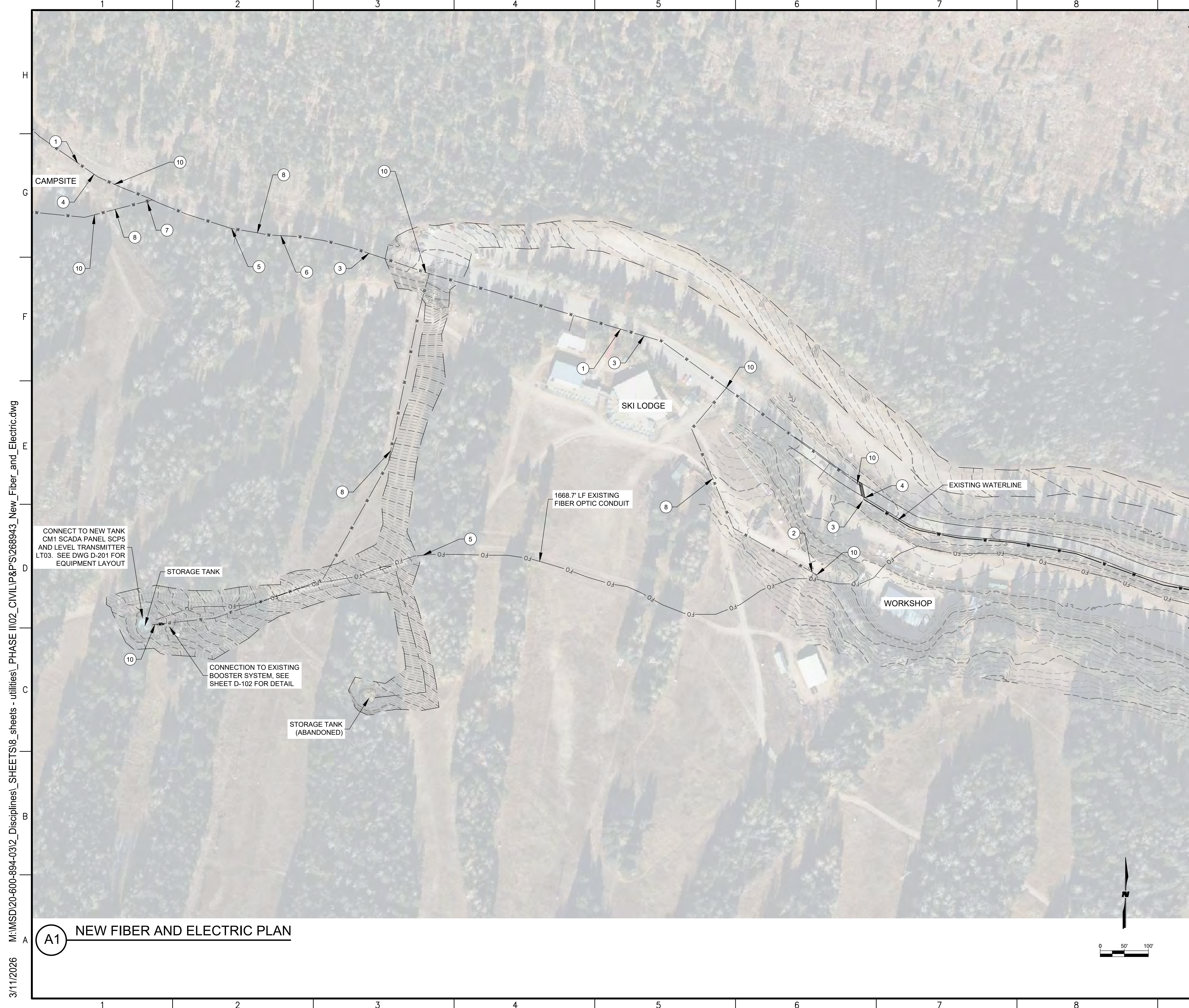
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

ELECTRICAL SEAL  
 3/11/2026  
 ROSS M. GABALDON  
 NEW MEXICO  
 PROFESSIONAL ENGINEER

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

SHEET TITLE  
**BOOSTER 4 SITE  
 GRADING AND  
 PIPING PLAN**

SHEET NO:  
**C-003**



**GENERAL NOTES**

1. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
2. MINIMUM 1.5 FT VERTICAL CLEARANCE BETWEEN PIPELINE AND EXISTING UTILITIES, OR USE LEAN FILL ASTM D-1557.
3. PROTECT EXISTING TREES AND EXISTING FENCING FROM DAMAGE, UNLESS OTHERWISE NOTED ON PLAN.
4. RESTORATION OF RIGHT OF WAY: UPON COMPLETION OF THE PIPELINE INSTALLATION WORK, ALL RUBBISH, EXCESS MATERIALS, TEMPORARY STRUCTURES AND EQUIPMENT ARE TO BE REMOVED AND THE HIGHWAY'S RIGHT OF WAY CLEANED AND RESTORED TO THE SATISFACTION OF THE CHIEF ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. DISTURBED AREAS SHALL BE SEEDED OR OTHERWISE PROTECTED TO CONTROL EROSION AS SPECIFIED BY NMDOT.
5. WHERE CROSSING UNDER OVERHEAD UTILITIES, CONTRACTOR SHALL MARK UTILITIES WITH RED MARKERS AND PROTECT OVERHEAD UTILITIES FROM DAMAGE DURING CONSTRUCTION.
6. CONTRACTOR SHALL REMOVE AND RESET ALL EXISTING ROADWAY SIGNS THAT ARE DISTURBED DURING CONSTRUCTION.
7. ALL STORM DRAIN CROSSINGS ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER. ANY STORM DRAIN CROSSINGS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR, AND ARE INCIDENTAL TO THE CONTRACT.
8. WHERE IDENTIFIED IN THE PLAN, CONTRACTOR SHALL DEFLECT PIPING AS NECESSARY IN ACCORDANCE WITH HDPE PIPING MANUFACTURERS RECOMMENDATION FOR SPECIFIC PIPE DIAMETER AND PRESSURE CLASS.
9. HDPE PIPE AND FITTINGS SHALL BE HDPE 4710, DIPS, OF SIZE AND DIMENSION RATIO (DR) SHALL MATCH EXISTING PIPE. FITTINGS SHALL BE OF THE SAME EQUIVALENT PRESSURE CLASS AS ASSOCIATED PIPE, REGARDLESS OF DIMENSION RATIO. WHERE THERE IS A DISCREPANCY ON THE PLANS, THE HIGHEST PRESSURE CLASS SHALL GOVERN.

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 FAX: 505-898-8501  
 www.wilsonco.com

CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 1**

**KEYNOTES**

1. INSTALL NEW 2" METER AND BOX, CIP. CONTRACTOR TO LOCATE IN FIELD
2. INSTALL NEW 1" METER AND BOX, CIP. CONTRACTOR TO LOCATE IN FIELD
3. ELECTRIC PULL BOX AND FIBER OPTIC PULL BOX, SEE DTL SHEET C-502
4. CONNECT EXISTING NON-POTABLE WATER LINE TO NEW TRANSMISSION LINE, PRIOR TO CONNECTION, CONTRACTOR SHALL CLEAN, AND DISINFECT EXISTING LINE PER SPECIFICATION SECTION 33 0601
5. FIBER OPTIC CONDUIT, SEE ELECTRICAL
6. ELECTRICAL CONDUIT, SEE ELECTRICAL
7. CUT AND CAP EXISTING 10" WATER LINE, CONTRACTOR TO LOCATE IN FIELD
8. 3197 LF OF EXISTING NON-POTABLE WATER LINE. CONTRACTOR SHALL CLEAN AND DISINFECT EXISTING WATERLINE. CONTRACTOR SHALL CLEAN EXISTING LINE VIA MECHANICAL ABRASION, VERIFY CLEANING AND PIPELINE VIA CAMERA INSPECTION, AND DISINFECT LINE WITH LIQUID CHLORINE. POTENTIAL TEMPORARY PIGGINS STATIONS ARE IDENTIFIED ON THE MAP. PRIOR TO CONNECTION TO THE POTABLE WATER SOURCE, ENGINEER SHALL REVIEW ALL CAMERA FOOTAGE AND VERIFY ACCEPTABILITY OF PIPE CONDITION. DISINFECTION PLAN SHALL BE SUBMITTED TO ENGINEER AND DRINKING WATER BUREAU FOR REVIEW - TYPICAL REVIEW PERIOD FOR DRINKING WATER BUREAU IS 30 DAYS
9. INSTALL TEMPORARY PIGGING/CAMERA STATION

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: BJA  
 DRAWN BY: STAFF  
 CHECKED BY: BJA  
 DATE: JUNE 2024

SHEET TITLE  
**SKI AREA WATER  
 AND FO SERVICE  
 MAP**

SHEET NO:  
**C-004**

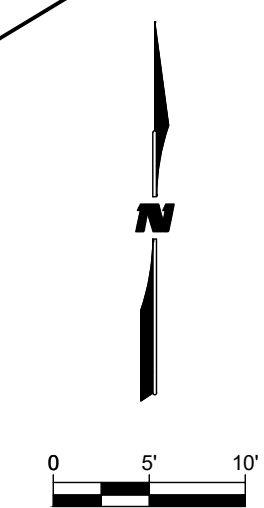
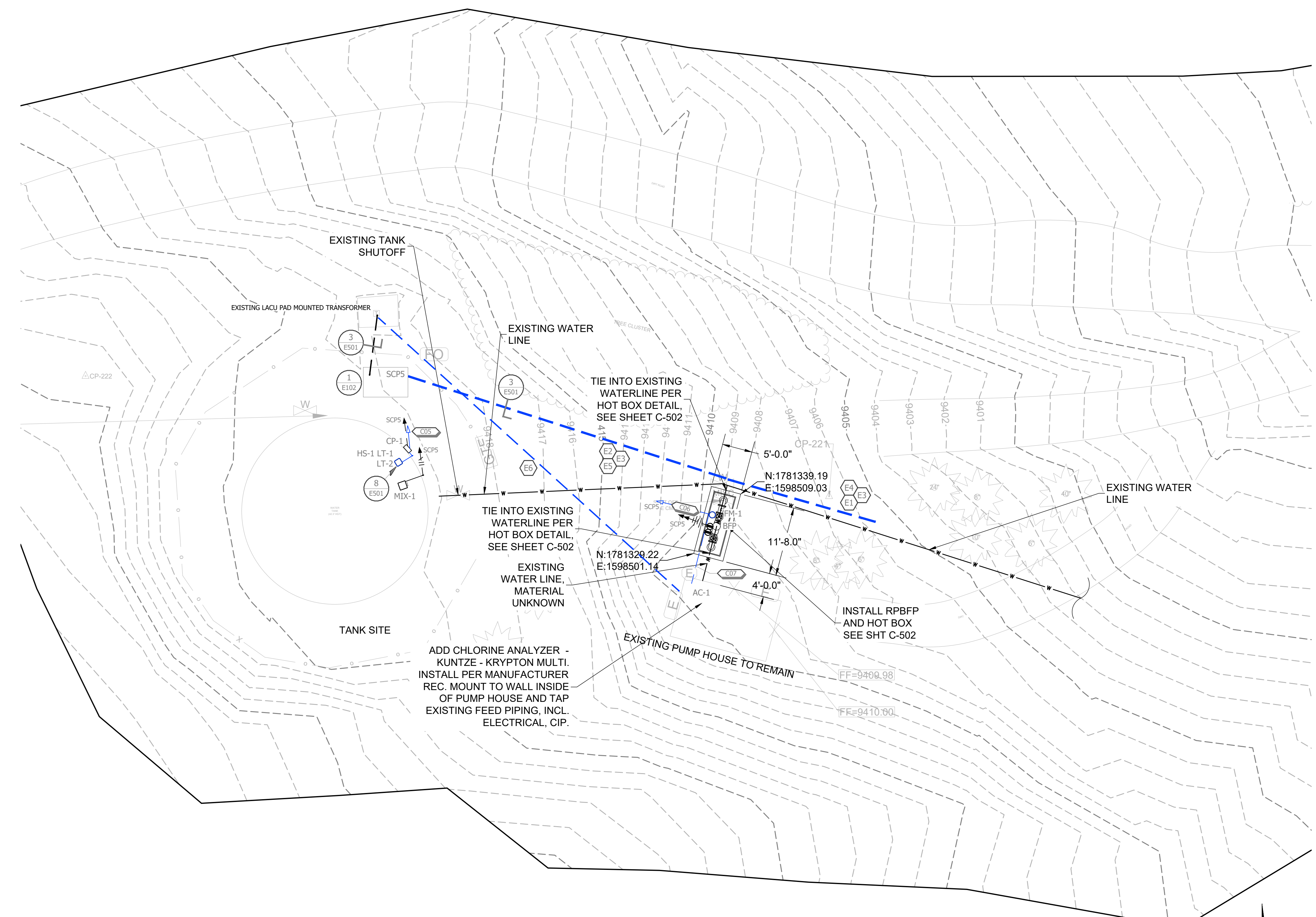
**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE I\I02\_CIVIL\IP&P\I268943\_New\_Fiber\_and\_Electric.dwg  
 3/11/2026

**A1 NEW FIBER AND ELECTRIC PLAN**

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE II\02\_CIVIL\268943\_C-101.dwg  
3/11/2026

**A1 TANK SITE CONNECTION PLAN**



**GENERAL NOTES**

- ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
- MINIMUM 1.5 FT VERTICAL CLEARANCE BETWEEN PIPELINE AND EXISTING UTILITIES, OR USE LEAN FILL ASTM D-1557.
- PROTECT EXISTING TREES AND EXISTING FENCING FROM DAMAGE, UNLESS OTHERWISE NOTED ON PLAN.
- CONTRACTOR SHALL COORDINATE WITH THE COUNTY TRAFFIC OPERATIONS DEPARTMENT IN THE EVENT OF ANY CONDUIT IMPACTS.
- RESTORATION OF RIGHT OF WAY: UPON COMPLETION OF THE PIPELINE INSTALLATION WORK, ALL RUBBISH, EXCESS MATERIALS, TEMPORARY STRUCTURES AND EQUIPMENT ARE TO BE REMOVED AND THE HIGHWAY'S RIGHT OF WAY CLEANED AND RESTORED TO THE SATISFACTION OF THE CHIEF ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. DISTURBED AREAS SHALL BE SEEDED OR OTHERWISE PROTECTED TO CONTROL EROSION AS SPECIFIED BY NMDOT.
- WHERE CROSSING UNDER OVERHEAD UTILITIES, CONTRACTOR SHALL MARK UTILITIES WITH RED MARKERS AND PROTECT OVERHEAD UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL REMOVE AND RESET ALL EXISTING ROADWAY SIGNS THAT ARE DISTURBED DURING CONSTRUCTION.
- ALL STORM DRAIN CROSSINGS ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER. ANY STORM DRAIN CROSSINGS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR, AND ARE INCIDENTAL TO THE CONTRACT.
- WHERE IDENTIFIED IN THE PLAN, CONTRACTOR SHALL DEFLECT
- PIPING AS NECESSARY IN ACCORDANCE WITH HDPE PIPING MANUFACTURERS RECOMMENDATION FOR SPECIFIC PIPE DIAMETER AND PRESSURE CLASS.
- HDPE PIPE AND FITTINGS SHALL BE HDPE 4710, DIPS, OF SIZE AND DIMENSION RATIO (DR) SHALL MATCH EXISTING PIPE. FITTINGS SHALL BE OF THE SAME EQUIVALENT PRESSURE CLASS AS ASSOCIATED PIPE, REGARDLESS OF DIMENSION RATIO. WHERE THERE IS A DISCREPANCY ON THE PLANS, THE HIGHEST PRESSURE CLASS SHALL GOVERN.
- REFER TO GENERAL NOTES ON DRAWINGS E001
- ALL OFF-SITE WORK IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND PERMITTING FOR ACCESS, SAFETY, TRAFFIC CONTROL, UTILITY LOCATION MARKING, AND CONSTRUCTION
- EXISTING SITE AND OFF-SITE GROUND SURFACES AND SUB-SURFACE IMPROVEMENTS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPECTIVE OWNER - OBTAIN WRITTEN APPROVAL OF THE REPAIR OR REPLACEMENT FROM THE OWNER AND SUBMIT ONE COPY TO THE OWNER IN THIS CONSTRUCTION CONTRACT
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND SERVICES DURING CONSTRUCTION - OUTAGES SHALL BE SCHEDULED AND NOTICES ISSUED A MINIMUM OF 2-DAYS PRIOR
- REFER TO OTHER SITE PLANS IN THIS SET OF DRAWINGS FOR LOCATIONS OF EXISTING AND NEW WATER, SEWER, GAS, COMMUNICATIONS, AND STORM DRAIN UTILITY LOCATIONS AND SERVICE REPRESENTATIVE CONTACT INFORMATION

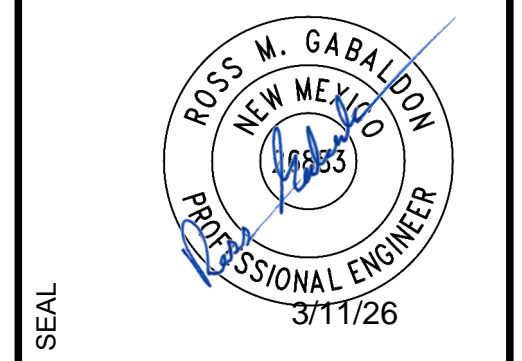
**KEYNOTES**

- (E1) PROVIDE 3 - 1-1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E2) PROVIDE 4" 24" BFG MIN w/ 3 - 1-1/4" CORRUGATED HDPE INNERDUCT (TRI-COLOR)
- (E3) PROVIDE FOS12 FIBER BUNDLE
- (E4) EXISTING 4" C INSTALLED IN PREVIOUS PHASE
- (E5) PULL FIBER BUNDLES INTO PATCH PANEL w/o SPLICES IN VAULT
- (E6) LOCATION AND ROUTE OF EXISTING CONDUCTORS IS UNKNOWN AND NOT VERIFIED - ROUTE SHOWN IS ASSUMED



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CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 2**

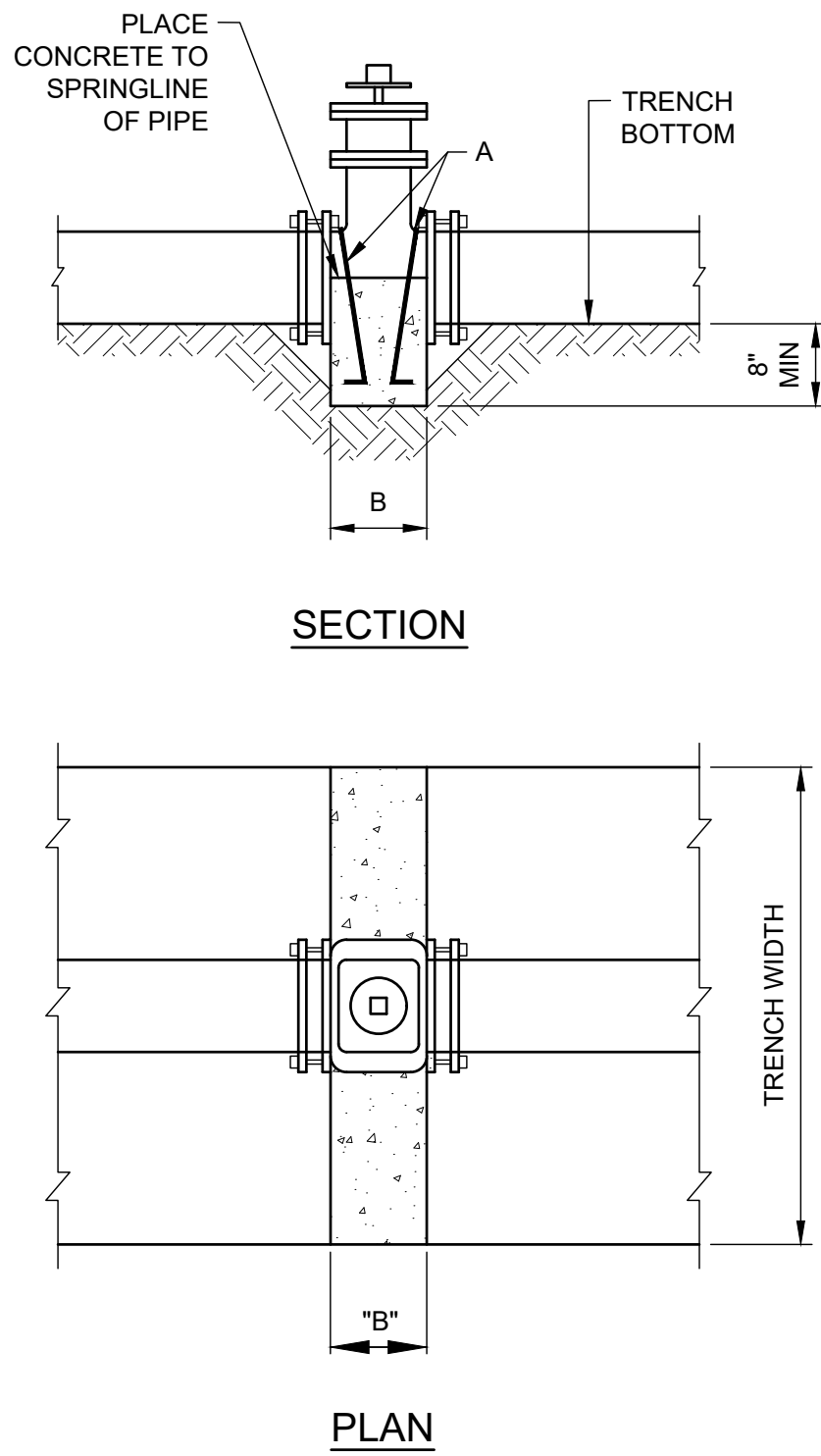
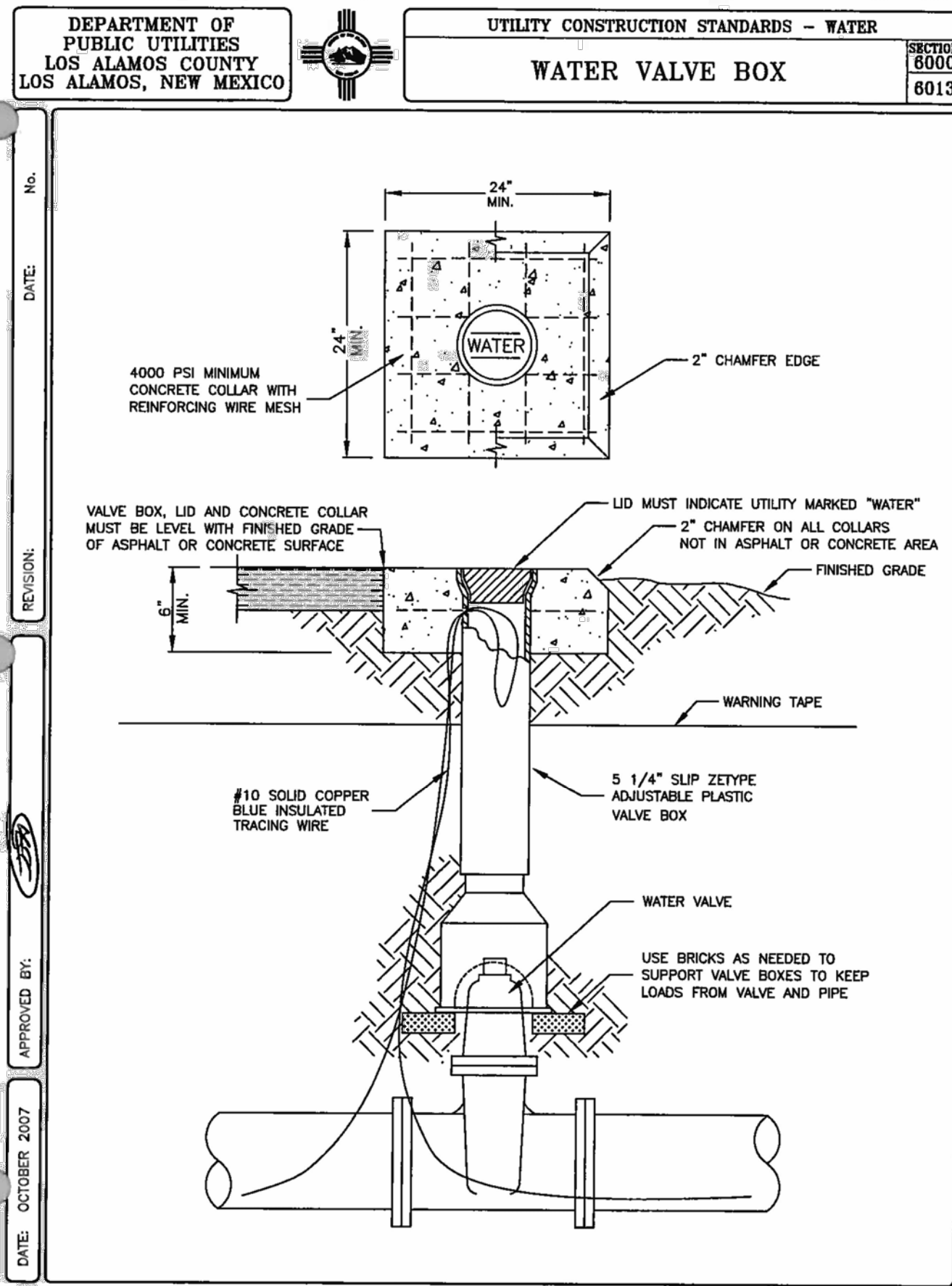
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: BJA  
DATE: MARCH 2026

SHEET TITLE  
**TANK SITE WATER AND FO CONNECTION PLAN**

SHEET NO:  
**C-005**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).



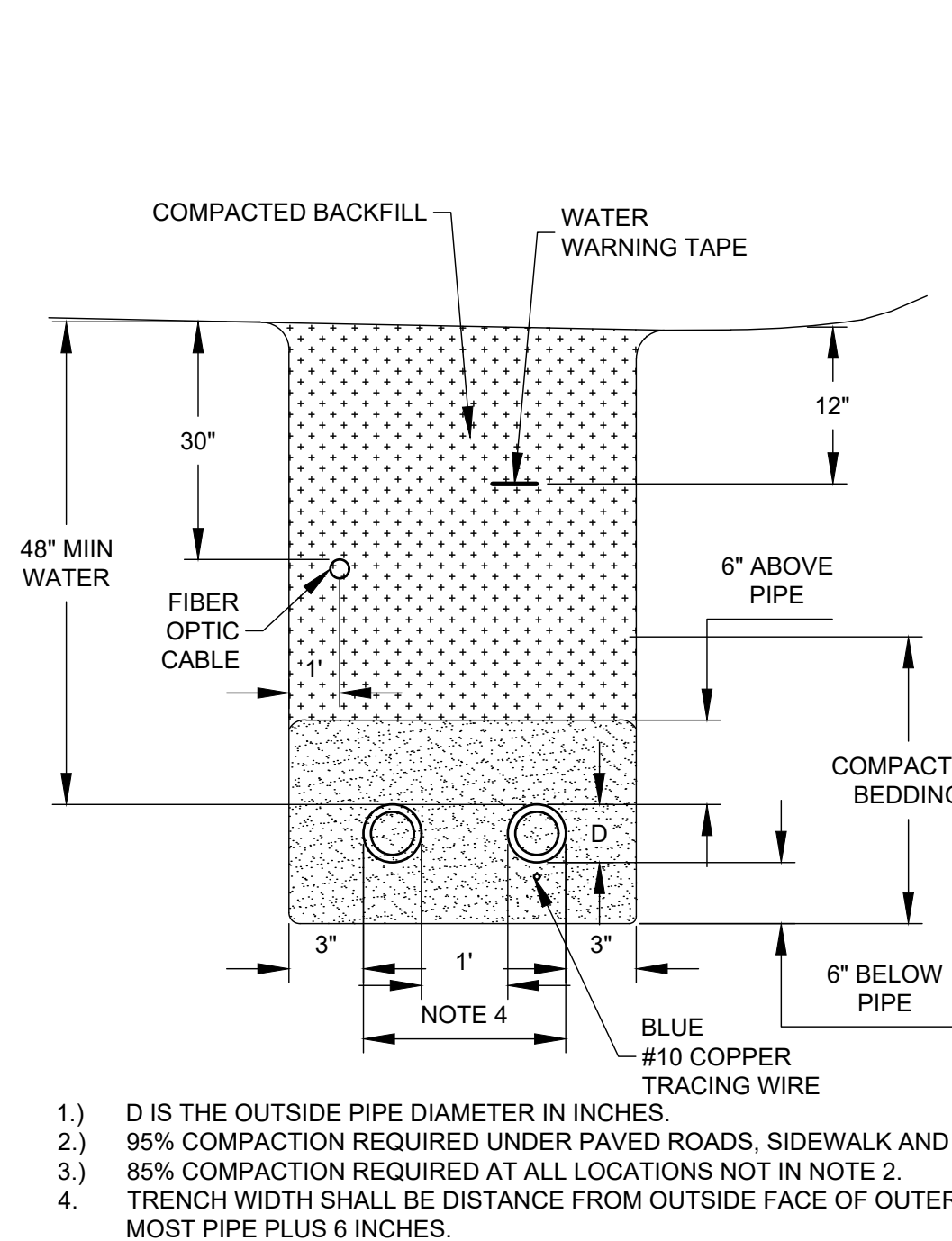
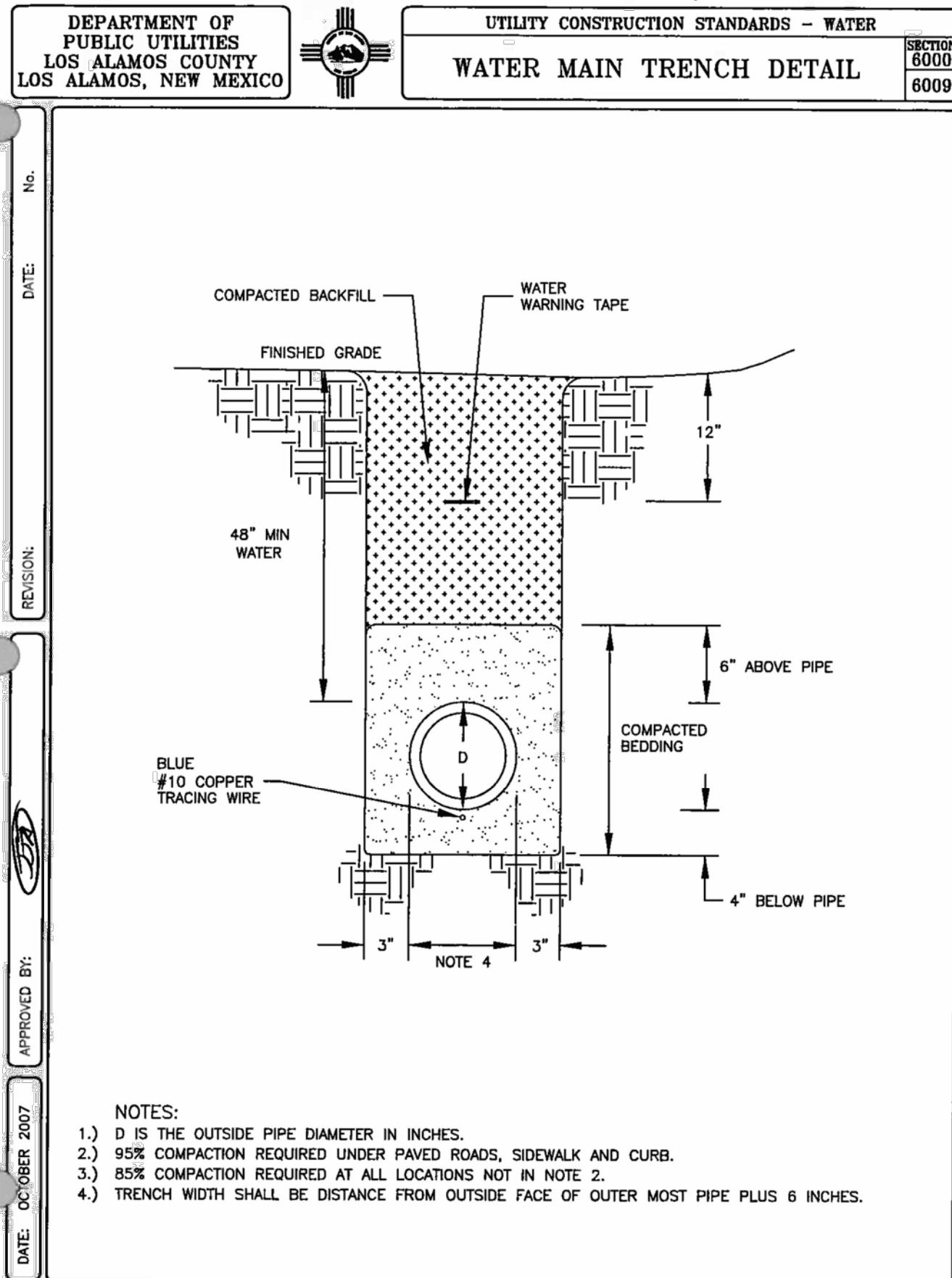
- GENERAL NOTES:**
1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12" AND BUTTERFLY VALVES.
  2. ALL THRUST CONTROL BY RESTRAINED JOINTS ONLY UNLESS OTHERWISE DIRECTED BY ENGINEER.
  3. USE FOR VALVE INSERTION INTO EXISTING LINES ONLY.
  4. CONCRETE USED FOR VALVE ANCHORAGE PER SEC. 101 HYDRAULIC STRUCTURAL CONCRETE,  $f_c=3000$  psi @ 28 DAYS.
  5. ALL JOINTS ARE TO BE MECHANICALLY RESTRAINED. THE MINIMUM RESTRAINED JOINT LENGTH SHALL BE 5 FEET ON EITHER SIDE OF THE VALVE.
  6. NOT NEEDED FOR E-Z VALVE OR OTHER VALVE INSERTION THAT DOES NOT CUT THROUGH THE ENTIRE SECTION OF PIPE.
  7. BEFORE THE WORK WILL BE ACCEPTED, WATER VALVE GPS COORDINATES SHALL BE PROVIDED ON THE RECORD DRAWINGS. GPS COORDINATES OBTAINED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF NEW MEXICO SHALL BE TAKEN AT THE VALVE OPERATING NUT. USE THE NAD 1983 NM STATE PLANE CENTRAL ZONE FOR X AND Y COORDINATES AND NAVD 1988 FOR Z COORDINATE.

- CONSTRUCTION NOTES:**
- A. TWO NO. 4 BARS FOR VALVE STRAPS WITH 3" HOOKS. HOOKS TO BE EMBEDDED BELOW BOTTOM OF PIPE BARS TO BE COATED WITH BITUMINOUS MATERIAL TO PREVENT CORROSION.

PIPE SIZE	DIM. B
6"	8"
8"	9"
10"	10"
12"	10"

**E4 WATER VALVE ANCHORAGE**  
NOT TO SCALE

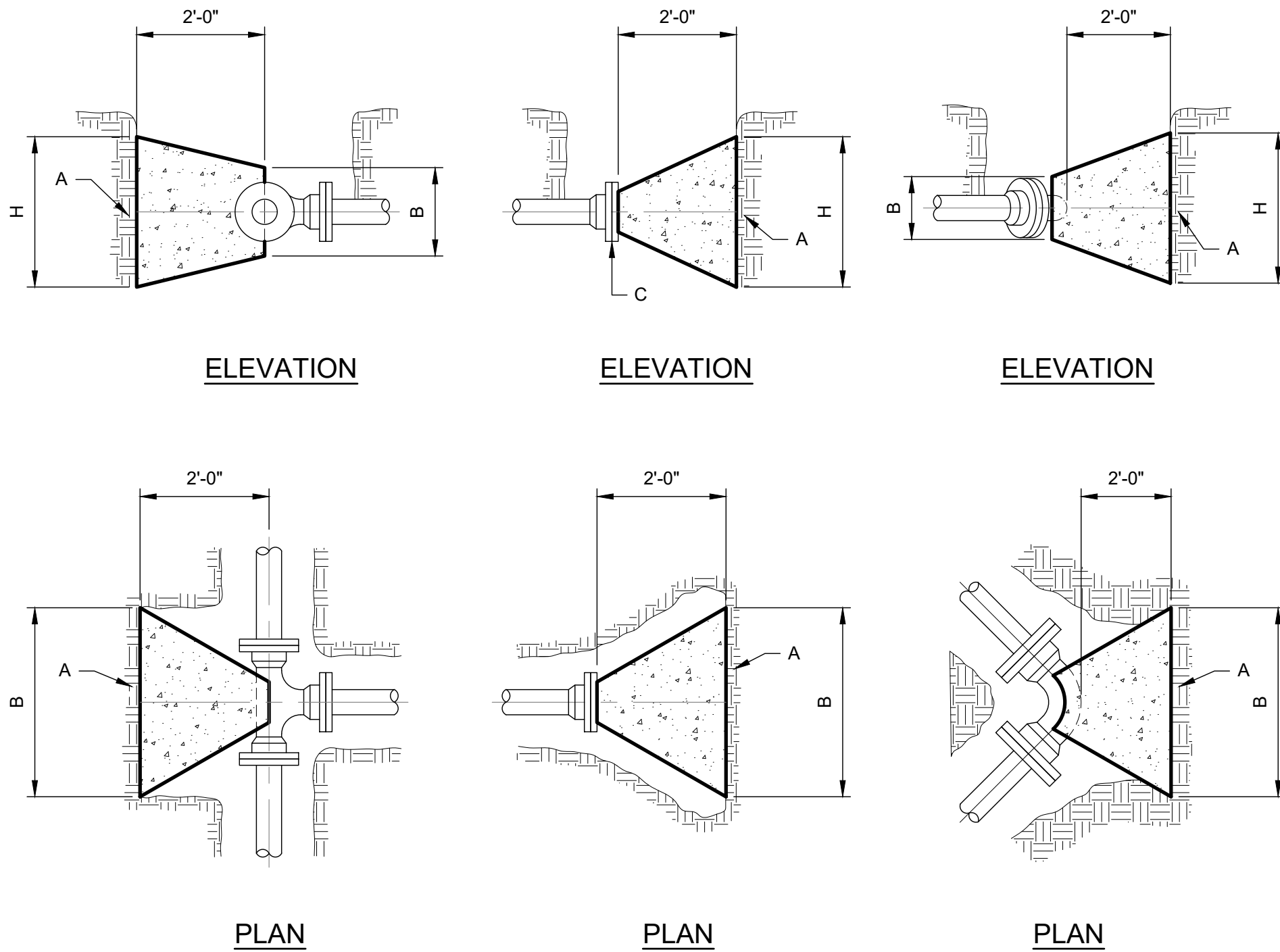
NOTE:  
USE CONCRETE ANCHORAGE ONLY UPON APPROVAL OF THE COUNTY.  
TYPICAL: USE MECHANICAL JOINT RESTRAINT WITH STAINLESS STEEL (SS) FASTENERS.



- NOTES:**
1. D IS THE OUTSIDE PIPE DIAMETER IN INCHES.
  2. 95% COMPACTION REQUIRED UNDER PAVED ROADS, SIDEWALK AND CURB.
  3. 85% COMPACTION REQUIRED AT ALL LOCATIONS NOT IN NOTE 2.
  4. TRENCH WIDTH SHALL BE DISTANCE FROM OUTSIDE FACE OF OUTER MOST PIPE PLUS 6 INCHES.

**A4 WATER MAIN AND FIBER OPTIC TRENCH DETAIL**  
NOT TO SCALE

NOTE: SEE ALSO TOP PAVING DETAILS ON SHEET CU-504.



**A6 CONCRETE BLOCKING**  
NOT TO SCALE

NOTE:  
USE CONCRETE THRUST BLOCK ONLY UPON APPROVAL OF THE COUNTY.

**PRESSURE PIPE RESTRAINED JOINT LENGTH REQUIREMENTS-THIS PROJECT ONLY**

TEST PRESSURE (PSI)	PIPE SIZE	LENGTHS OF PIPE TO BE RESTRAINED IN FEET (APPLIES TO DI AND PVC)						VERTICAL BEND					
		FITTING TYPE				FIRE HYDRANT TEE (3)	DEAD END OR VALVE (4)	45°		22 1/2°		11 1/4°	
		90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND			RESTRAINED LENGTH ALONG BRANCH (L <sub>B</sub> )	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT
300	6" (1)(6/9)	38"	16"	8"	4"	1'	84"	35"	16"	17"	8"	9"	4"
300	6" (1)(7/9)	31"	13"	6"	3"	1'	54"	23"	13"	11"	6"	6"	3"
150	8" (6/6)	25"	11"	5"	3"	1'	55"	23"	11"	11"	5"	6"	3"
150	12" (8/6)	35"	15"	7"	4"	1'	78"	33"	15"	16"	7"	8"	4"

- (1) ASSUMES MINIMUM DEPTH OF BURY = 4 FT.  
(2) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L<sub>T</sub>) IS 20 FT.  
(3) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L<sub>T</sub>) IS 20 FT.  
(4) ASSUMES TEE RUN PIPE DIAMETER IS EQUAL TO PIPE SIZE AND BRANCH PIPE DIAMETER IS 6 INCHES.  
(5) RESTRAINED LENGTH FOR VALVES SHALL BE PROVIDED ON BOTH SIDES OF VALVE.  
(6) WHERE POSSIBLE, CONTRACTOR SHALL INSTALL FULL 20-FT JOINT OF PIPE ON EITHER SIDE OF ALL MECHANICAL JOINT VALVES, FITTINGS, AND APPURTENANCES. FOR ALL CIRCUMSTANCES WHERE A 20-FT JOINT CAN BE UTILIZED AND THE CONTRACTOR ELECTS TO USE A SHORTER PIPE JOINT, CONTRACTOR SHALL PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL NECESSARY JOINT RESTRAINTS REQUIRED BY TABLE ABOVE. NUMBER OR WEIGHT OF EXTRA JOINT RESTRAINTS SHALL NOT BE INCLUDED IN MEASUREMENT NOR PAYMENT.  
(7) PVC  
(8) DUCTILE IRON  
(9) TEST PRESSURE = 150 PSI  
TEST PRESSURE = 300 PSI

**THRUST RESTRAINT NOTE:**  
ALL BURIED VALVES, FITTINGS, AND APPURTENANCES SHALL BE MECHANICAL JOINT-TYPE UTILIZING "MEGA-LUG"® STYLE MECHANICAL JOINT RESTRAINTS IN CONJUNCTION WITH "MEGA-LUG"® PIPE BELL-HARNESSE RESTRAINTS WHEN ADEQUATE RESTRAINED LENGTH CAN BE OBTAINED. IN THE EVENT ADEQUATE RESTRAINED LENGTHS CANNOT BE OBTAINED, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR DETERMINATION OF APPROPRIATE ACTION TO BE TAKEN. THE EBAA IRON "RESTRAINED LENGTH CALCULATION" PROGRAM (VERSION 6.3) HAS BEEN USED TO DETERMINE MINIMUM RESTRAINED LENGTHS SHOWN IN TABLE ABOVE. THE FOLLOWING GENERAL ASSUMPTIONS APPLY TO ALL CALCULATIONS:

TRENCH TYPE 3  
SOIL TYPE SM (SILTY SANDS, SAND SILT MIXTURE)  
SAFETY FACTOR 1.5 TO 1

**TYPICAL BURY DEPTH:**  
6" THROUGH 18" DIAMETER PIPE 4 FT MINIMUM

**TYPICAL BURY DEPTHS FOR VERTICAL OFFSETS:**  
6" THROUGH 18" DIAMETER PIPE 4 FT TO TOP OF UPPER BRANCH  
4 FT TO TOP OF LOWER BRANCH

CONTRACTOR MAY SUBMIT SUBSTITUTE REDUCED RESTRAINED JOINT LENGTHS IF SOIL AND DEPTH OF BURY CONDITIONS WARRANT. CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS AND APPROPRIATE CALCULATIONS TO SUPPORT THE LENGTH REDUCTION. SOIL TESTING AND CALCULATIONS SHALL BE PERFORMED AT CONTRACTOR'S SOLE EXPENSE.

- GENERAL NOTES:**
1. ALL THRUST CONTROL BY RESTRAINED JOINTS ONLY UNLESS DIRECTED BY ENGINEER, AND FOR "SPECIAL" SITUATIONS SPECIFIED BY THE LAC UTILITY DIVISION.
  2. PIPE SIZE GREATER THAN 14" Ø REQUIRES DESIGN BY ENGINEER TO BE SUBMITTED TO THE LAC UTILITY DIVISION FOR APPROVAL.
  3. CONCRETE BLOCKING PER SEC. 101 EXTERIOR CONCRETE,  $f_c=3000$  psi @ 28 DAYS.

PIPE SIZE	ELBOW ANGLE	ELBOW (B) DIM.	ELBOW (A) DIM.	TEE OR PLUG (B) DIM.	TEE OR PLUG (H) DIM.
4"				2'	1'
4"	90° 45°	2'	2'		
4"	22.5° 11.25°	2'	2'		
6"				2'	2'
6"	90° 45°	2'	2'		
6"	22.5° 11.25°	2'	2'		
8"				3'	3'
8"	90°	3'	3'		
8"	45°	2'	2'		
8"	22.5° 11.25°	2'	2'		
10"				3'	3'
10"	90°	3'-6"	3'-6"		
10"	45°	3'	3'		
10"	22.5° 11.25°	2'	2'		
12"				3'-6"	3'-6"
12"	90°	4'	4'		
12"	45°	3'-6"	3'-6"		
12"	22.5° 11.25°	2'	2'		
14"				4'	4'
14"	90°	5'	5'		
14"	45°	3'-6"	3'-6"		
14"	22.5° 11.25°	3'	3'		

**CONSTRUCTION NOTES:**

- A. UNDISTURBED EARTH.
- B. OD OF PIPE + 8".
- C. OD OF CAP OR PLUG, MIN 12"x12".
- D. USE ONLY FOR EXCEPTIONAL SITUATIONS. USE OF MECHANICAL RESTRAINTS TAKES PRECEDENCE.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
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www.wilsonco.com

CONSULTANTS



SEAL

**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**MISCELLANEOUS DETAILS**

SHEET NO: **C-501**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

1 2 3 4 5 6 7 8 9 10

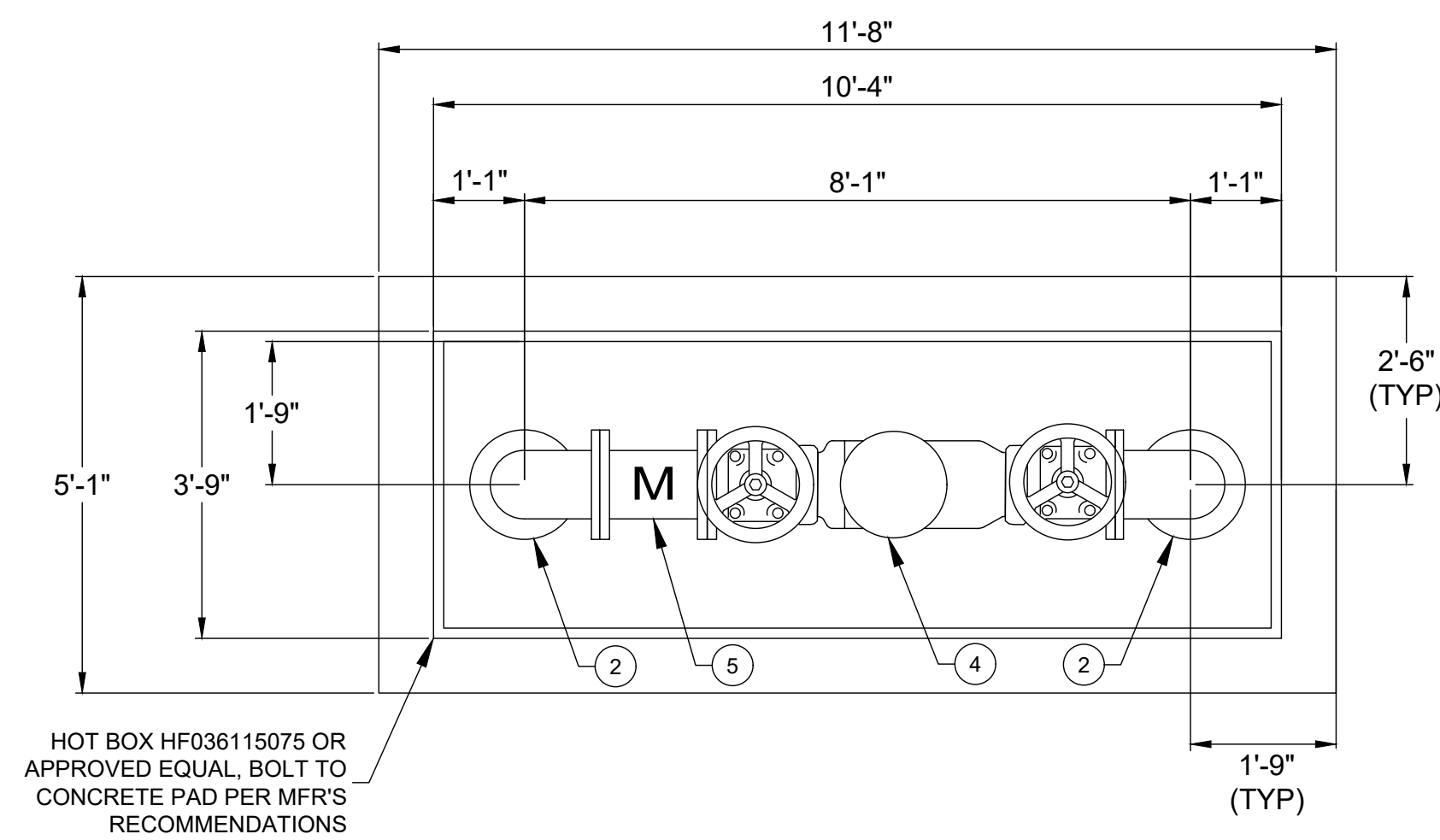
H  
G  
F  
E  
D  
C  
B  
A

**KEYNOTES**

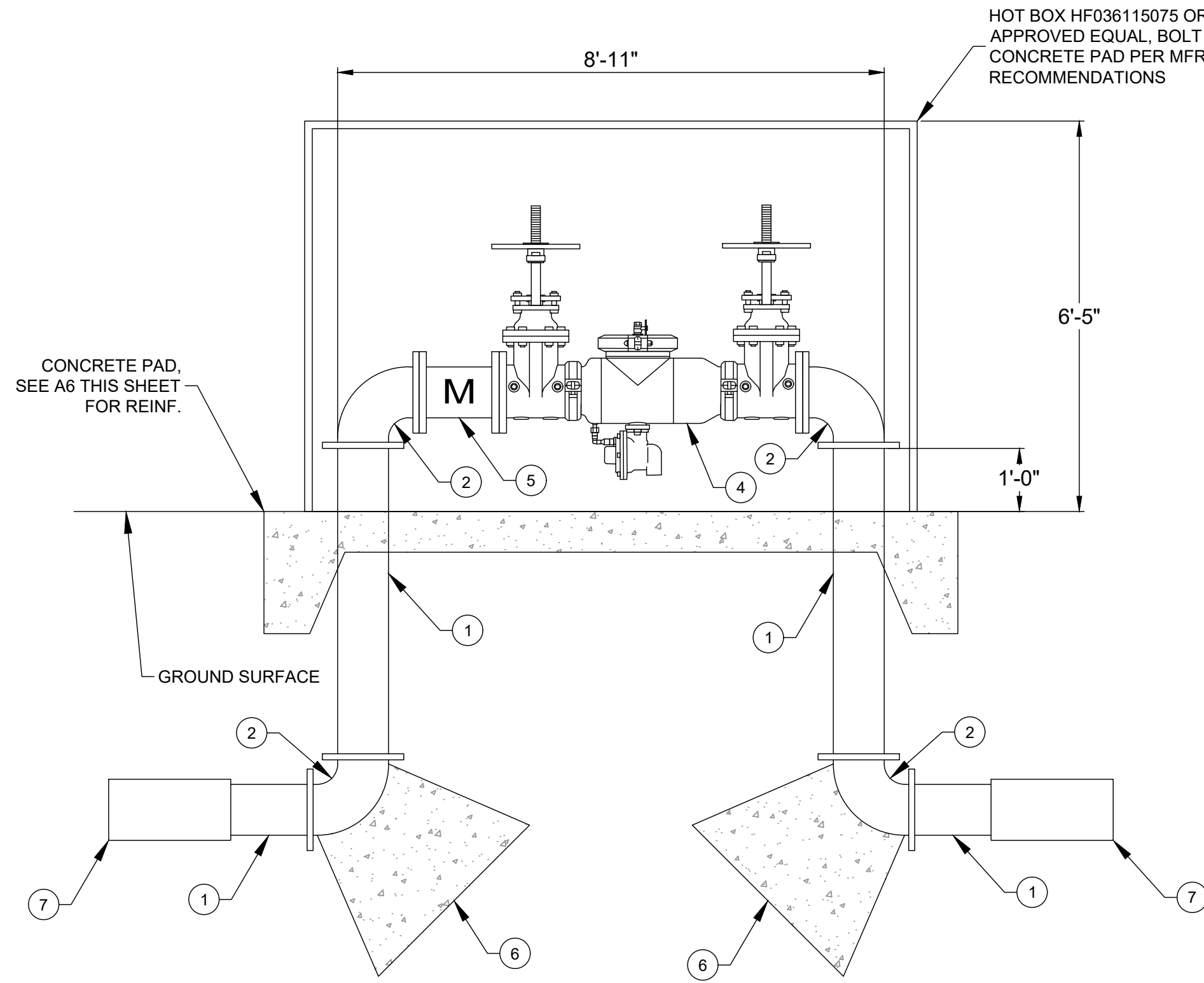
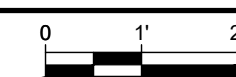
- 1 10" DUCTILE IRON PIPE, LENGTH AS NEEDED
- 2 10" DI FLXFL 90° BEND
- 3 10" DI FLXFL TEE
- 4 10" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ZURN MODEL 375AST OR EQUAL
- 5 10" MAGNETIC FLOW METER, KHROME WATERFLUX MODEL 3300, INCLUDING TOTALIZER AND CONNECTION TO MAINS POWER, CIP.
- 6 THRUST BLOCK PER DETAIL SHEET C-501.
- 7 10" SOLID SLEEVE COUPLING.

**NOTES:**

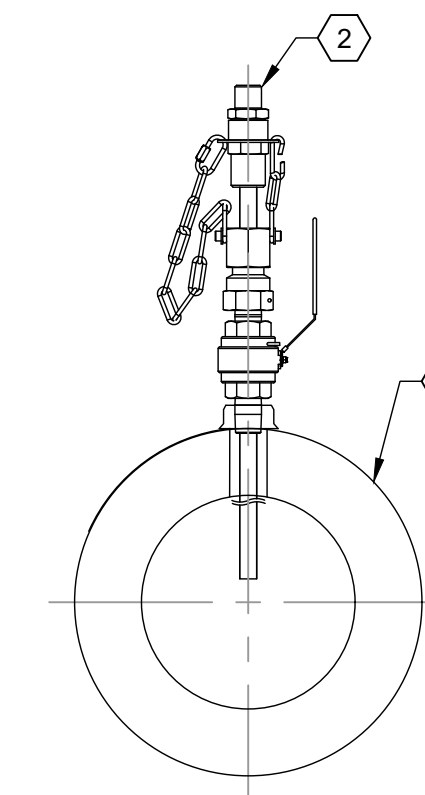
- 1 DI TAPPING SADDLE W/ THREADED ADAPTOR FOR INJECTOR, ROMAC OR EQUAL
- 2 SAF-T-FLO EB-120 SERIES RETRACTABLE INJECTOR W/ CHECK VALVE. PART # EB-120-B-C-3"-B-V OR ENGINEER APPROVED EQUAL.



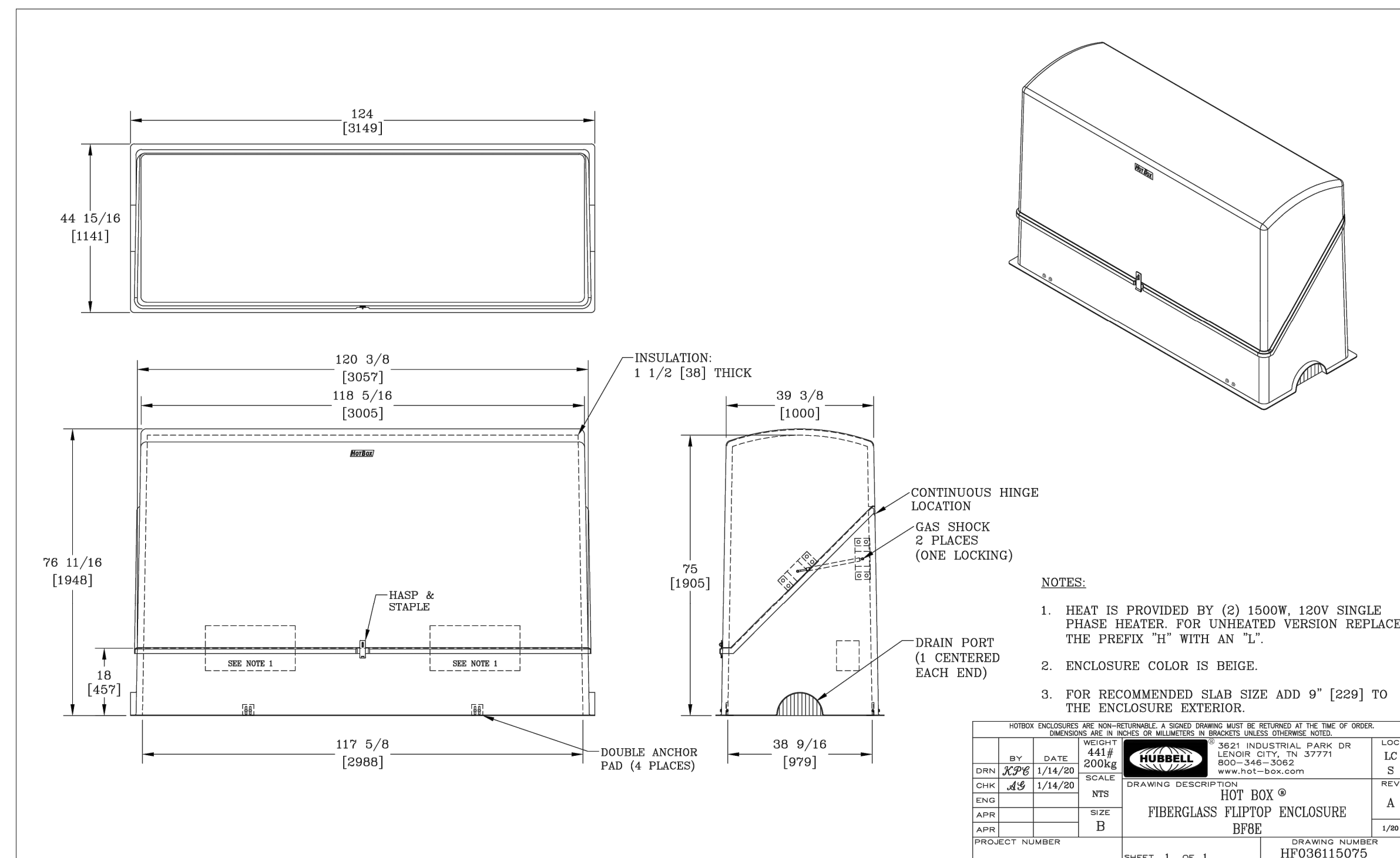
**E1 PLAN**  
SCALE: 1" = 2'



**E5 SECTION**  
SCALE: 1" = 2'



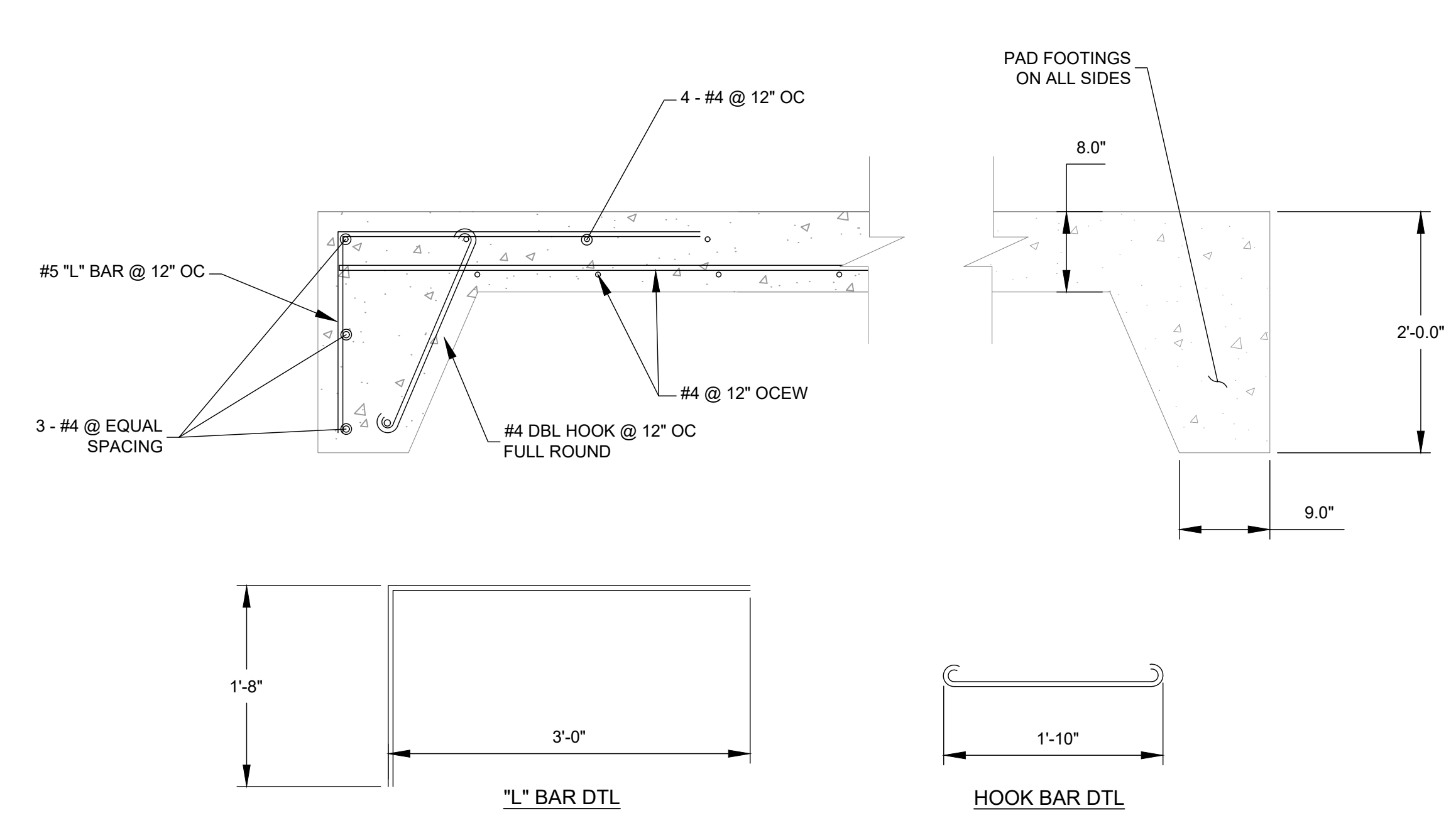
**E9 INJECTION W/ SPACER DETAIL**  
NOT TO SCALE



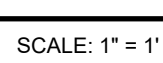
**A1 HOT BOX DETAIL**  
SCALE: NTS

- NOTES:**
- HEAT IS PROVIDED BY (2) 1500W, 120V SINGLE PHASE HEATER FOR UNHEATED VERSION REPLACE THE PREFIX "H" WITH AN "L".
  - ENCLOSURE COLOR IS BEIGE.
  - FOR RECOMMENDED SLAB SIZE ADD 9" [229] TO THE ENCLOSURE EXTERIOR.

HUBBELL		3521 INDUSTRIAL PARK DR LENOX, CT, 07177 800-346-3062 www.hubbell.com		LOC LC S
BY	DATE	SCALE	DRAWING DESCRIPTION	REV
441#	1/14/20	NTS	HOT BOX @	A
CHK	1/14/20		FIBERGLASS FLIPTOP ENCLOSURE	
ENG			BF8E	1/99
APP				
PROJECT NUMBER		SHEET 1 OF 1		DRAWING NUMBER
				HF036115075



**A6 TYPICAL PAD REINFORCEMENT DTL (ALL PADS)**  
SCALE: 1" = 1'



NOTE: THE BASIS OF THE DESIGN FOR THIS HOT BOX IS HOT BOX (R) FIBERGLASS FLIPTOP ENCLOSURE BF8E, DWG #HF036115075 BY HUBBELL. ENGINEER APPROVED EQUAL MAY BE CONSIDERED PROVIDED THE DIMENSIONS, FUNCTIONALITY, AND MATERIAL QUALITY ARE EQUAL TO OR GREATER THAN THE BASIS OF DESIGN.

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
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CONSULTANTS



SEAL

**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

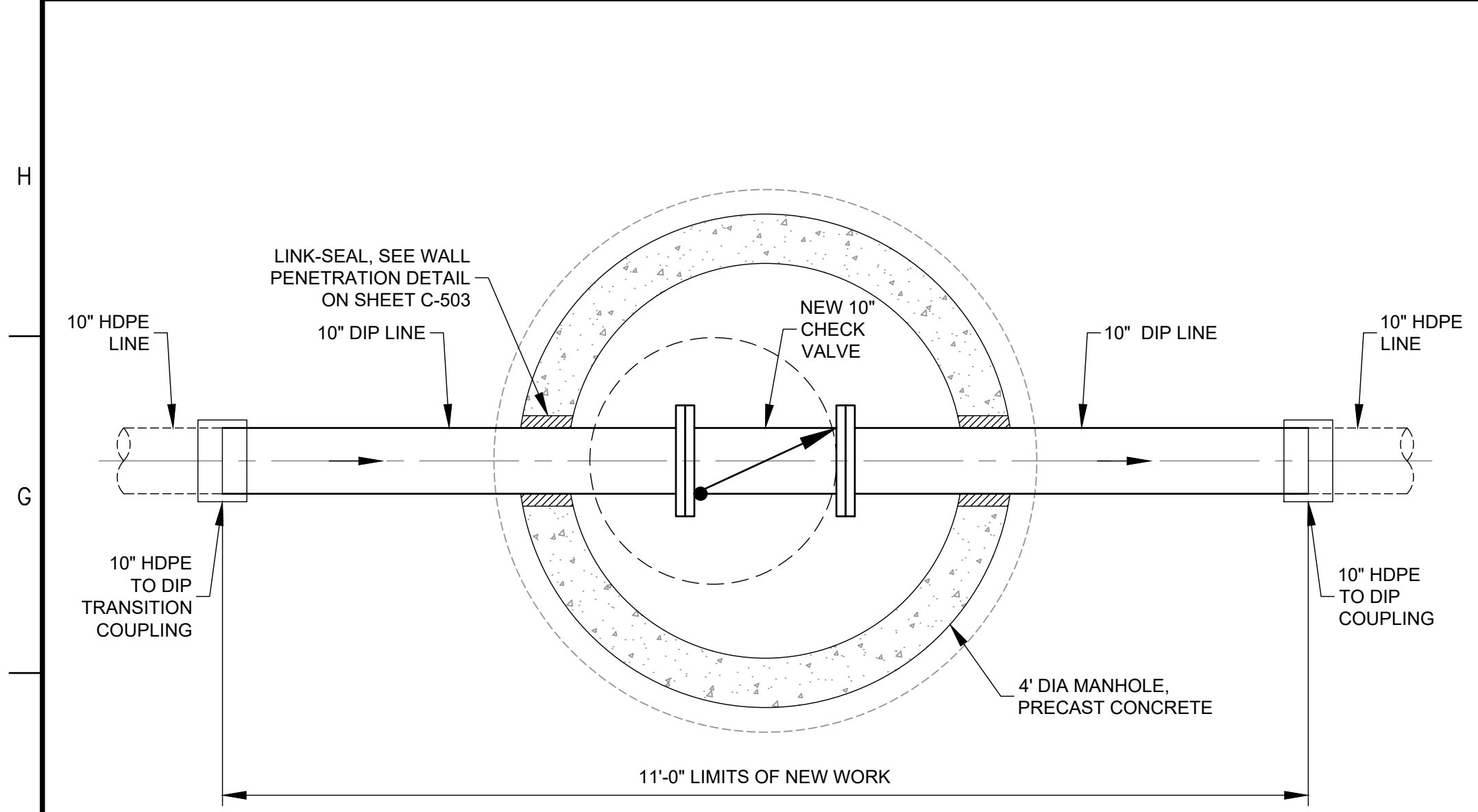
PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**MISCELLANEOUS  
DETAILS**

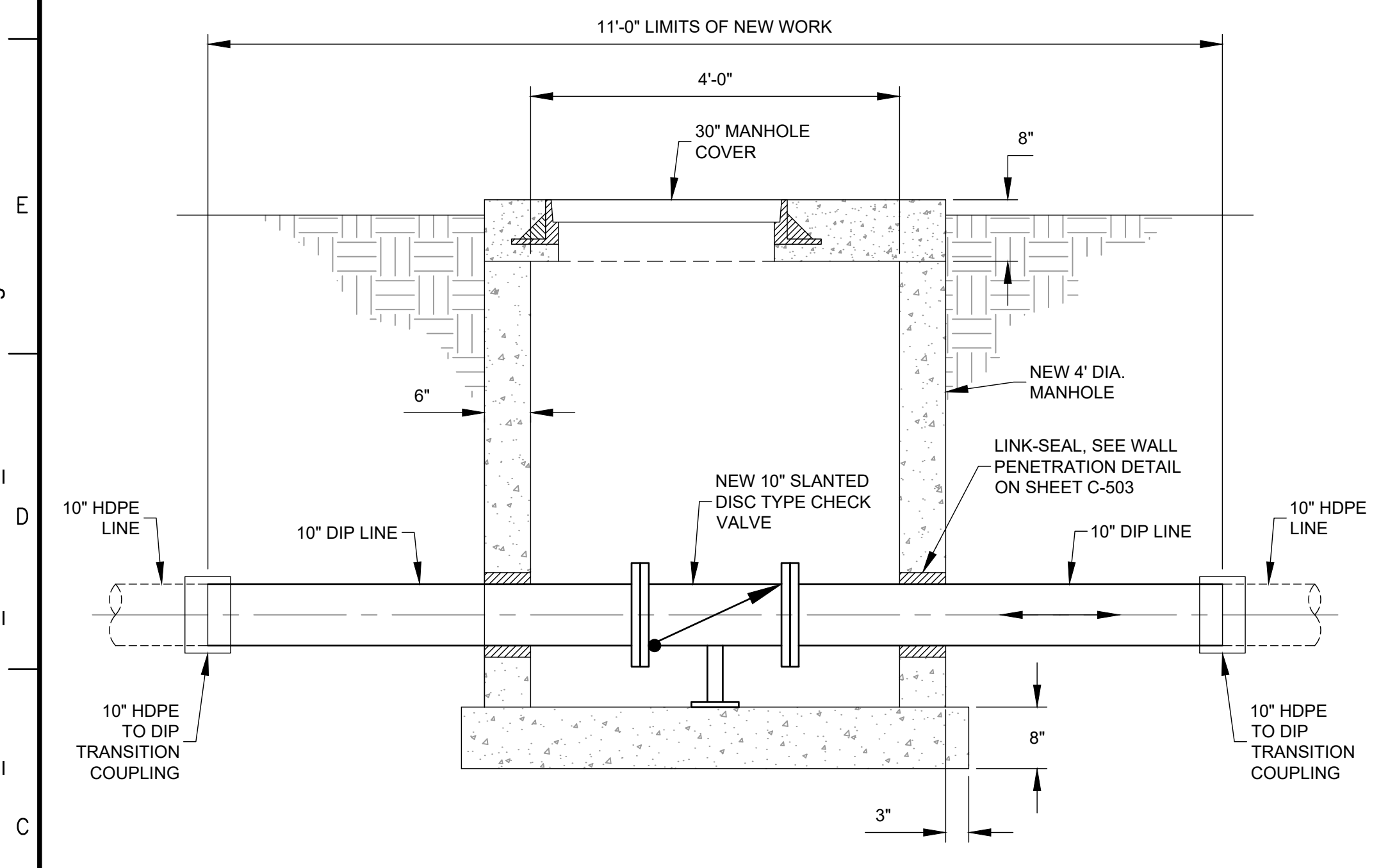
SHEET NO:  
**C-502**

1 2 3 4 5 6 7 8 9 10

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

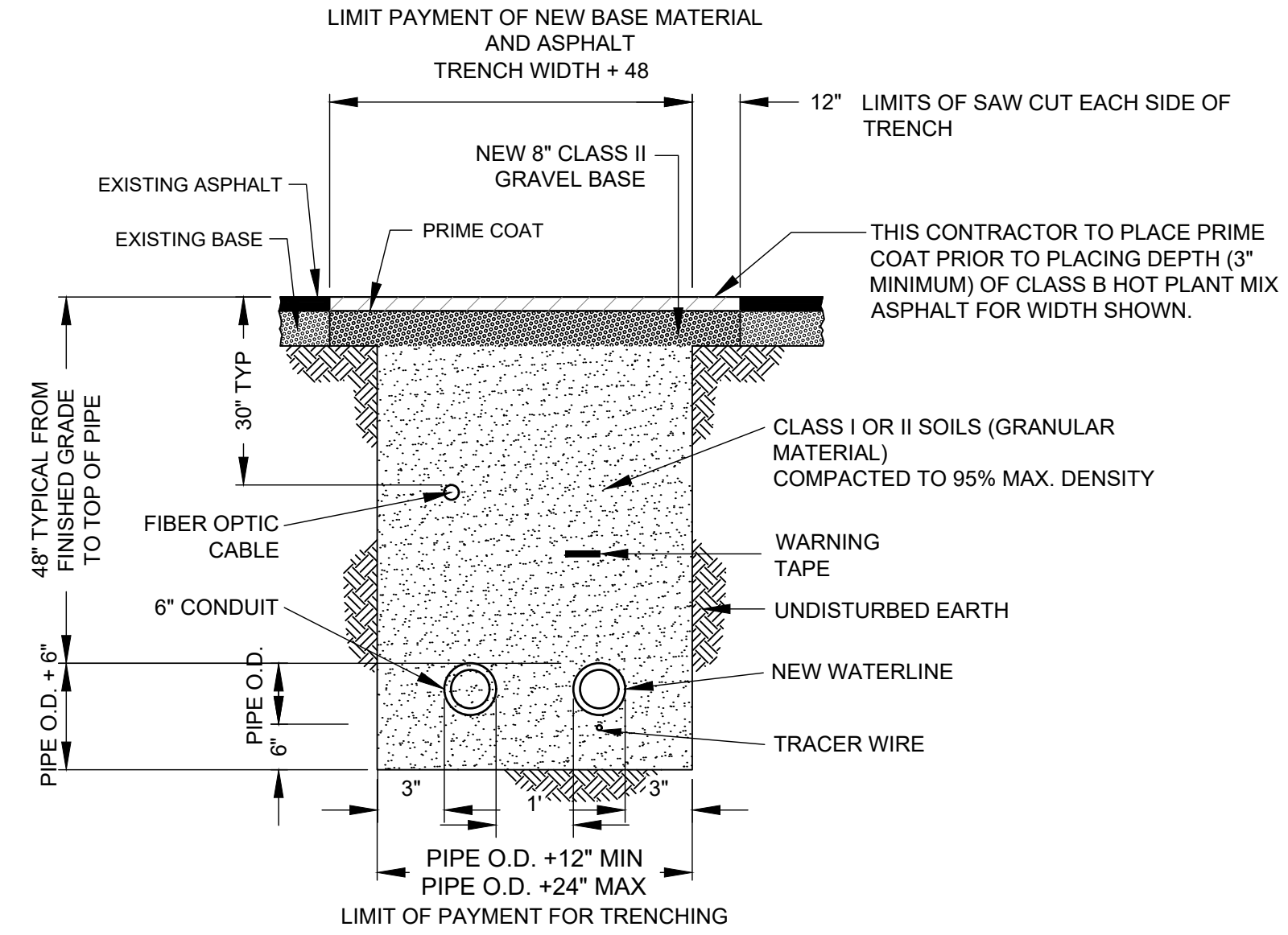


PLAN



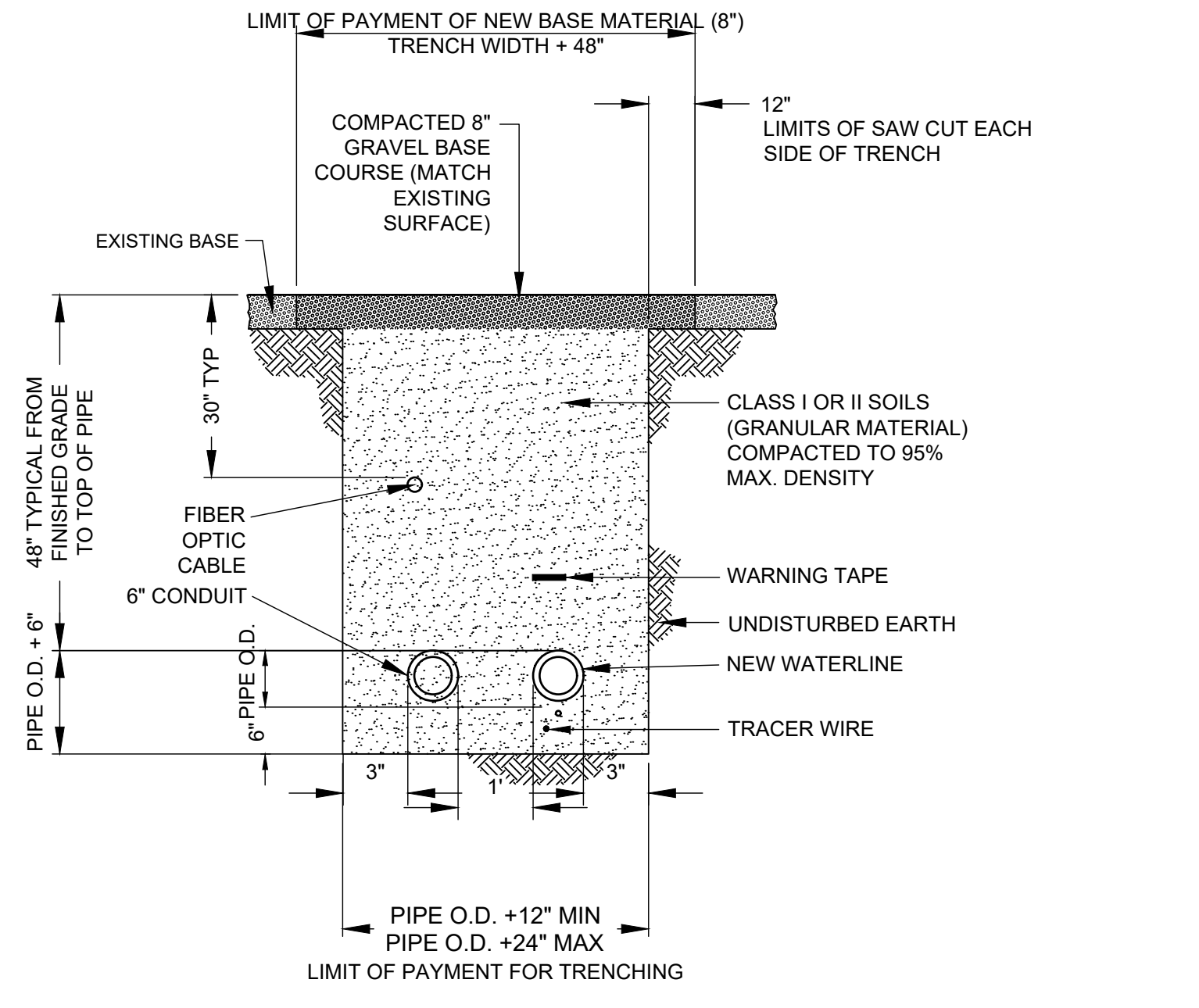
ELEVATION

**B2** VALVE MANHOLE  
 NOT TO SCALE

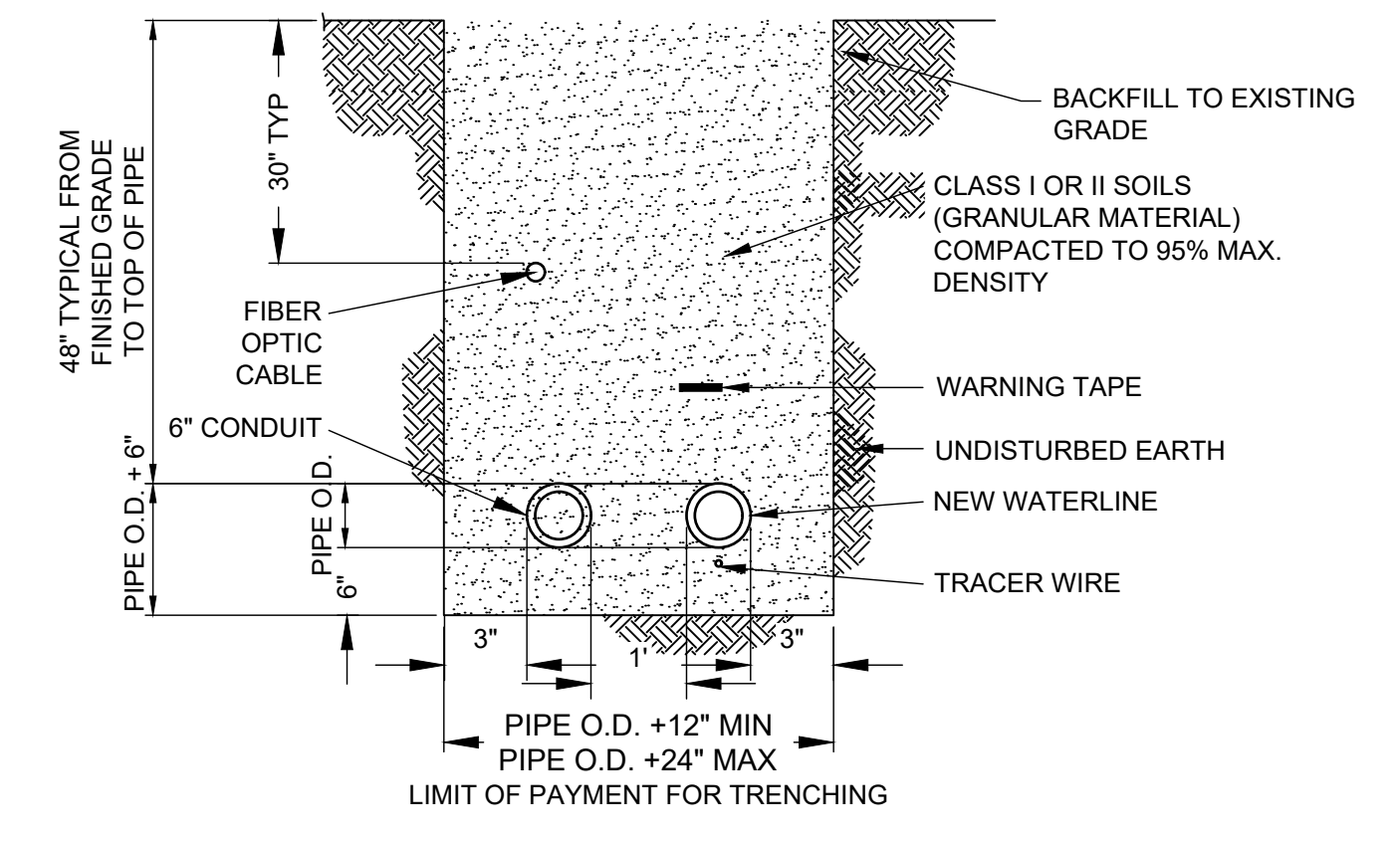


NOTES FOR MATCHING EXISTING PAVEMENT:  
 1. TRENCH-WIDTH ASPHALT SHALL HAVE A MINIMUM THICKNESS OF 3", REGARDLESS OF STREET ASPHALT THICKNESS, SEE TRENCH DETAIL AND "TYPICAL LIMITS OF RESURFACING WORK" DETAIL THIS SHEET.

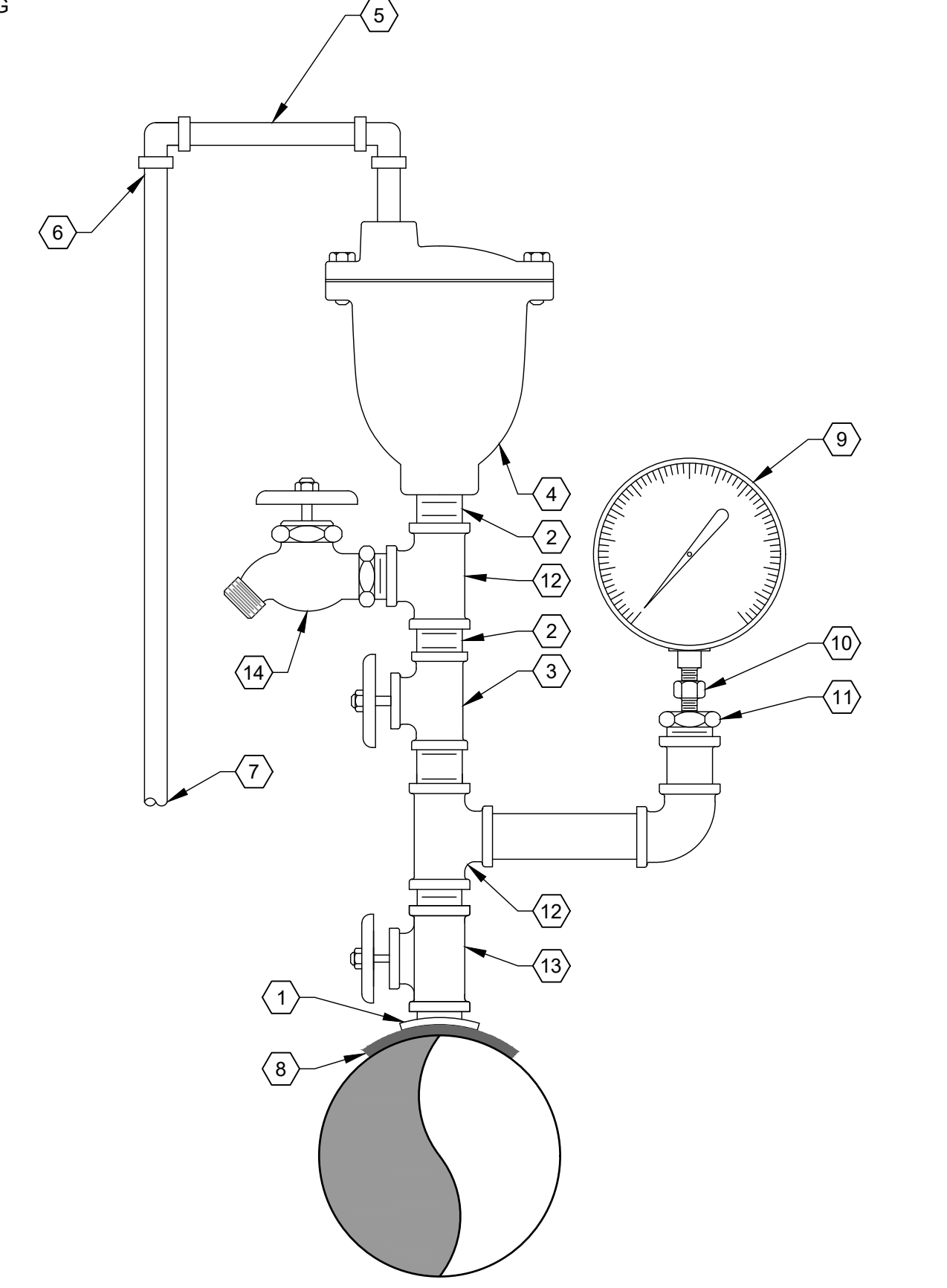
**E5** TRENCH #1:  
 PAVEMENT CUT/REPLACEMENT AND TRENCH DETAIL  
 TO MATCH EXISTING ASPHALT PAVEMENT  
 NOT TO SCALE



**A5** TRENCH #3:  
 PAVEMENT CUT/REPLACEMENT W/ GRAVEL PAVEMENT TO MATCH EXIST GRAVEL PAVEMENT  
 NOT TO SCALE



**F9** TRENCH #2:  
 NON PAVED AREAS  
 TRENCH DETAIL  
 NOT TO SCALE

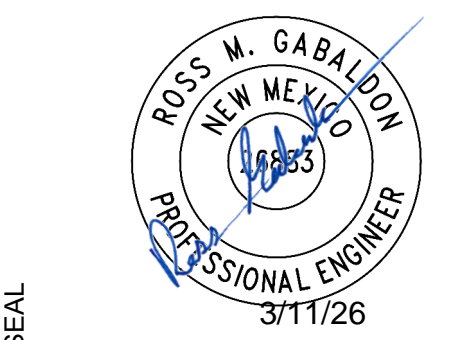


**B8** AIR RELIEF VALVE ASSEMBLY DETAIL  
 (INCLUDING PRESSURE GAGE AND HOSE BIB)  
 NOT TO SCALE

NOTE:  
 SEE SPECS FOR MATERIALS.

NOTICE OF EXTENDED PAYMENT PROVISION:  
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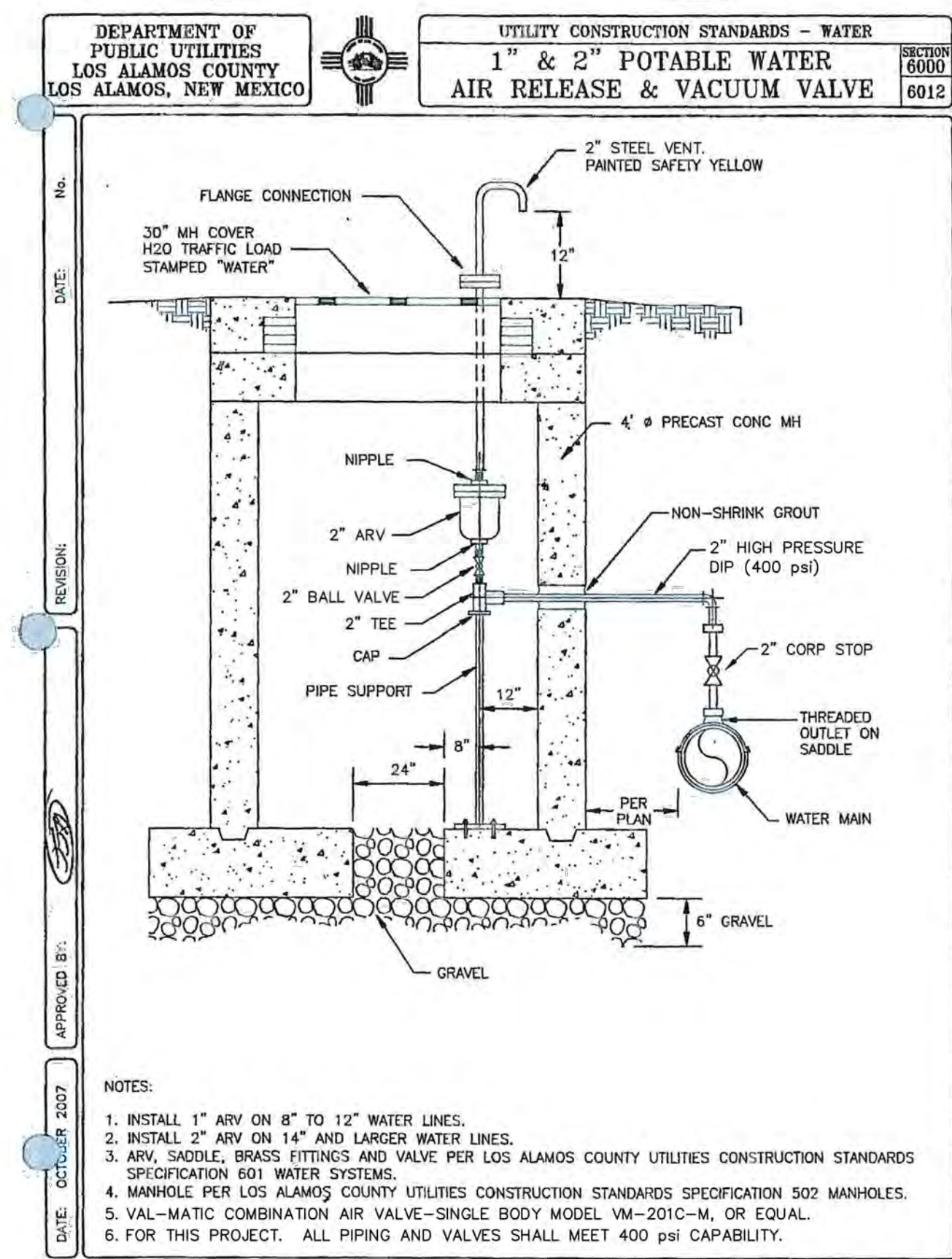
LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

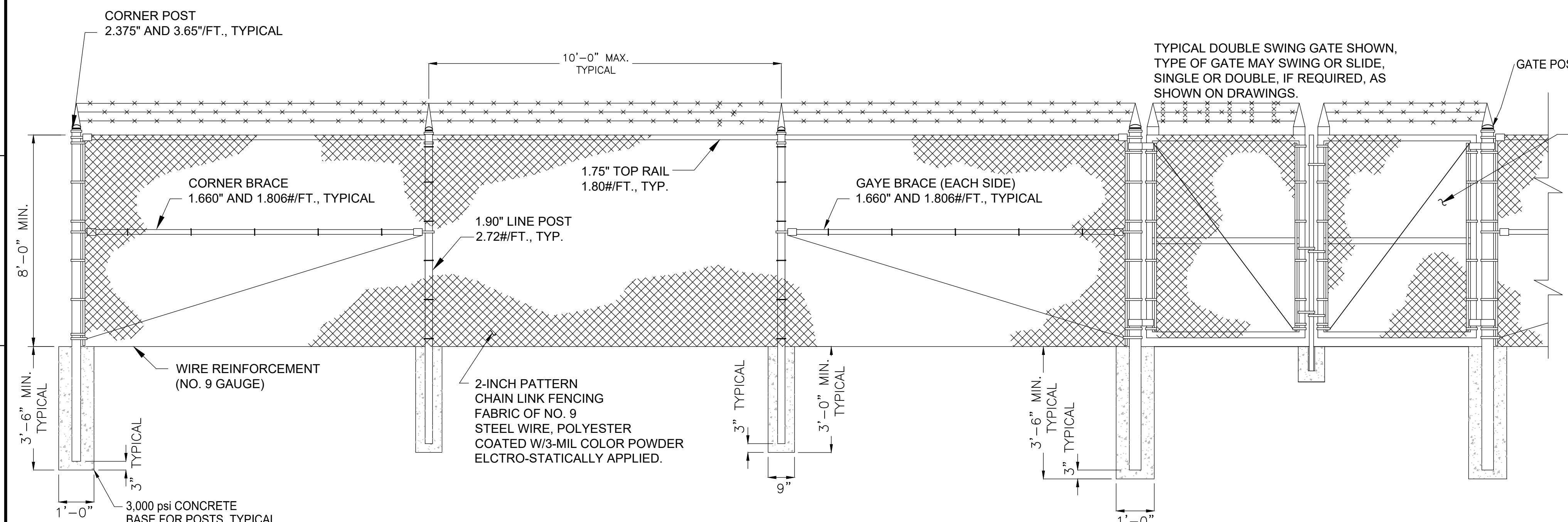
MISCELLANEOUS DETAILS  
 SHEET NO: **C-503**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT.  
(SECTION 57-28-5 B (2) NMSA 1978).



- NOTES:
1. INSTALL 1" ARV ON 8" TO 12" WATER LINES.
  2. INSTALL 2" ARV ON 14" AND LARGER WATER LINES.
  3. ARV, SADDLE, BRASS FITTINGS AND VALVE PER LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARDS SPECIFICATION 601 WATER SYSTEMS.
  4. MANHOLE PER LOS ALAMOS COUNTY UTILITIES CONSTRUCTION STANDARDS SPECIFICATION 502 MANHOLES.
  5. VAL-MATIC COMBINATION AIR VALVE-SINGLE BODY MODEL VM-201C-M, OR EQUAL.
  6. FOR THIS PROJECT. ALL PIPING AND VALVES SHALL MEET 400 PSI CAPABILITY.

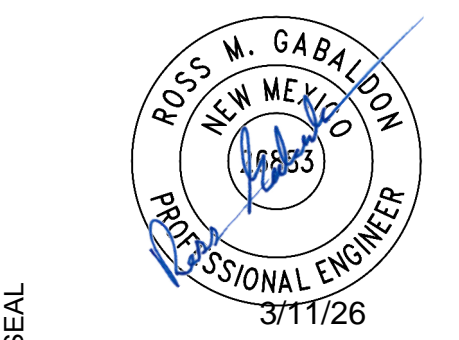
**D8** PIPELINE AIR RELEASE/VACUUM VALVE DETAIL  
NOT TO SCALE



- NOTES:
1. FABRIC SHALL BE 2" MESH, 9 GAUGE STEEL WIRE, POLYESTER COATED W/3-MIL COLOR POWDER ELECTRO-STATICALLY APPLIED. BLACK, BROWN OR GREEN COLOR TO BE SELECTED BY OWNER.
  2. ALL POSTS SHALL BE HEAVILY COATED WITH ZINC BY THE HOT-DIP PROCESS. THE ZINC FABRIC COATING SHALL NOT BE LESS THAN 1.2 OZ/SF AND SHALL BE APPLIED IN ACCORDANCE WITH FEDERAL SPEC. QQ-Z-351.
  3. ALL MEMBERS ARE ROUND AND ALL DIMENSIONS ARE NOMINAL, O.D.
  4. EACH END POST SHALL BE BRACED WITH A TRUSS ROD 3/8" DIAMETER W/ TURNBUCKLE.
  5. FASTENERS: TERMINAL POSTS - 1/4" X 3/4" TENSION BAR W/6 GAUGE CLIPS AT 14" O.C. TOP RAIL - 9 GAUGE AT 24" O.C.
  6. TUBULAR POST BRACES AND TOP RAILS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 120.
  7. CHAIN LINK FABRIC SHALL CONFORM TO ASTM A 392-96.
  8. ALL FENCE FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 626-96.
  9. ALL GATES, WHEN REQUIRED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 654-91.

**B1** FENCE DETAIL  
NOT TO SCALE

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PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

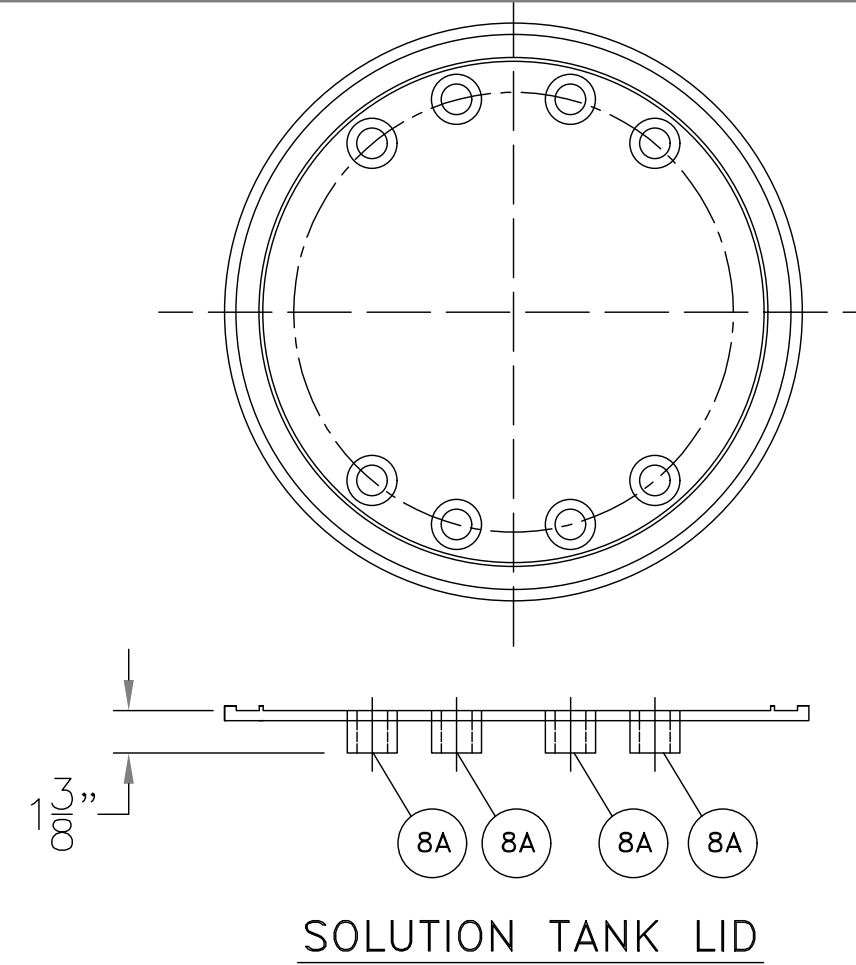
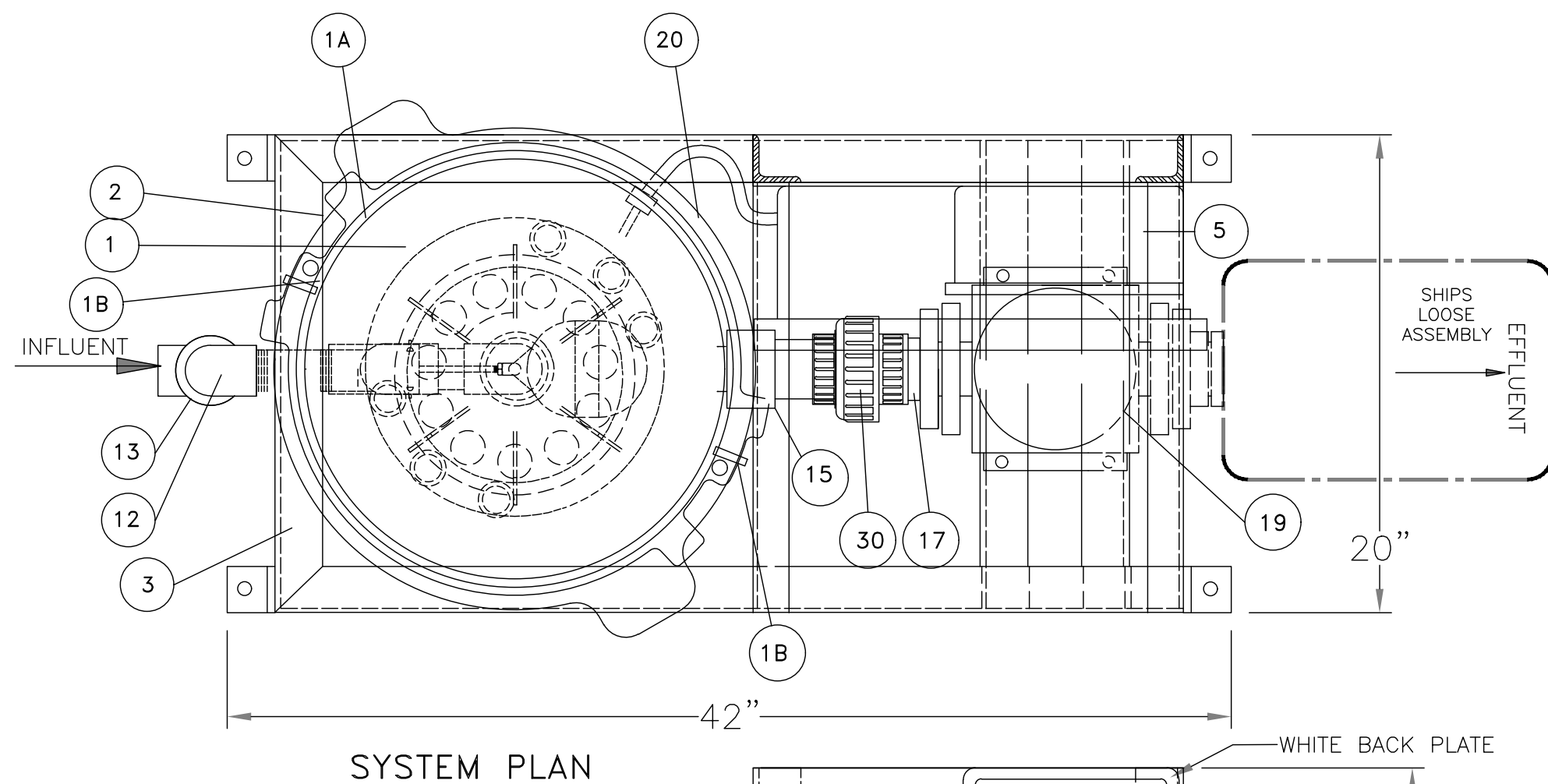
PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**MISCELLANEOUS  
DETAILS**

SHEET NO:  
**C-504**

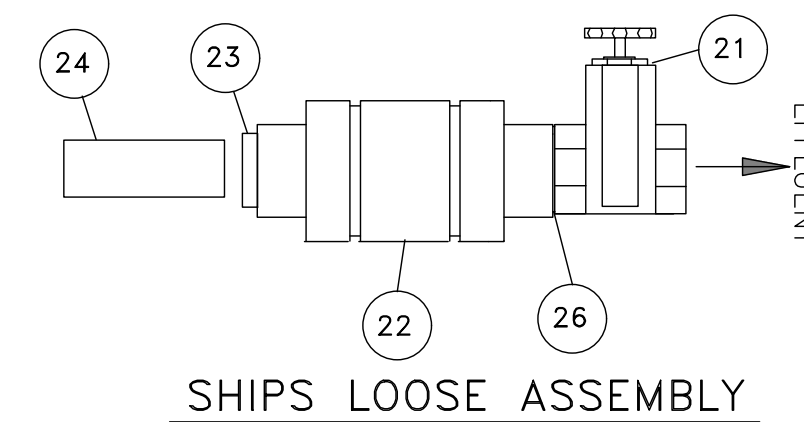
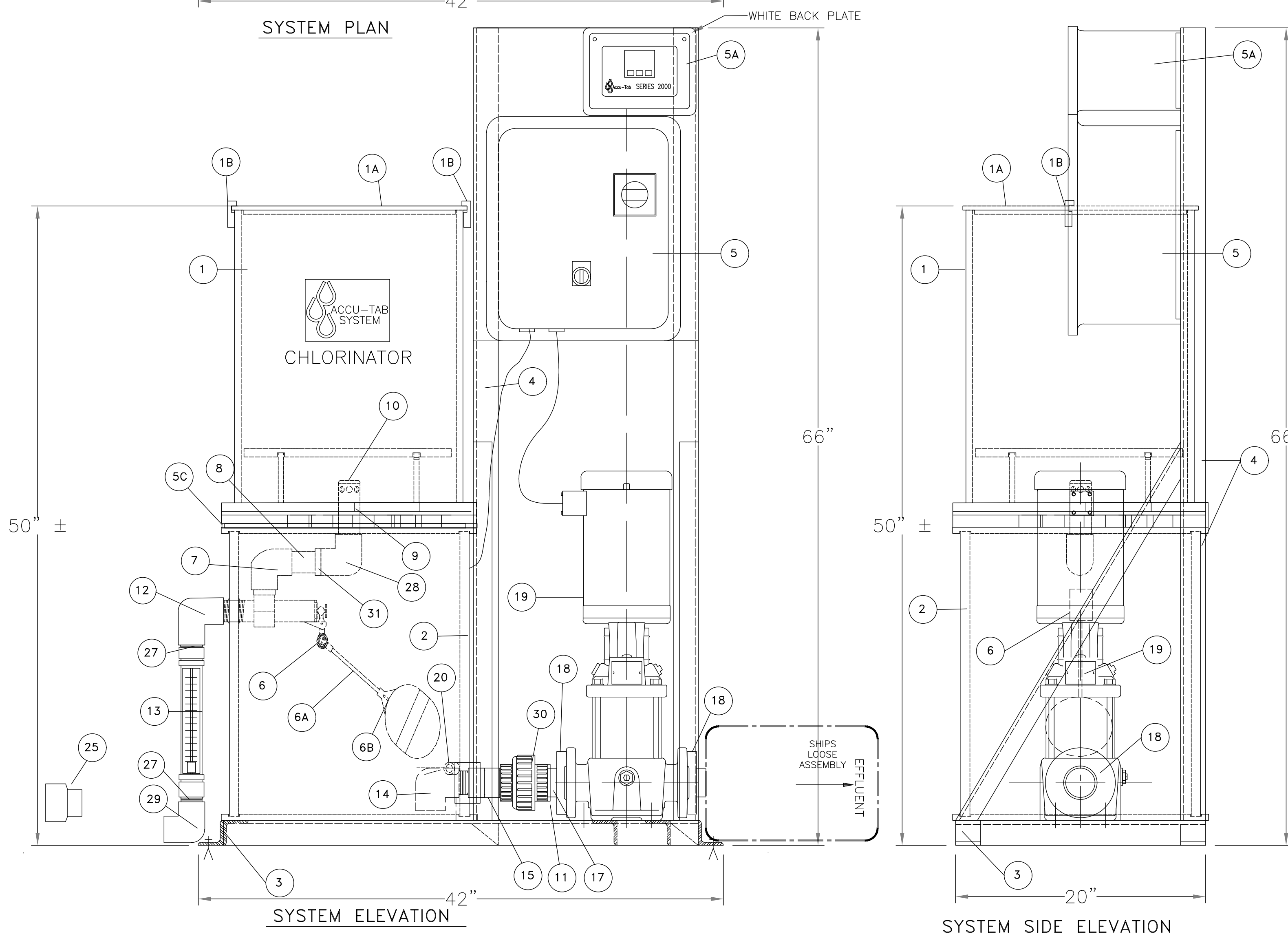
3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

MANUFACTURER DETAIL PROVIDED FOR REFERENCE ONLY



BILL OF MATERIAL ACCU-TAB 2150P

ITEM	QUAN.	DESCRIPTION
1	1	2150 CHLORINATOR
1A	1	POLYCARBONATE LID - 1/2" x 18 3/4" DIA.
1B	2	LOCKING LID TABS
2	1	18"Ø PVC SOLUTION TANK
3	1	2" ANGLE ALUMINUM FRAME STAND W/ ANCHOR ANGLES
4	3	2" ANGLE ELECTRICAL SUPPORT
5	1	ELECTRICAL CONTROL PANEL
5A	1	SERIES 2000 CONTROLLER (OPTIONAL)
5C	1	WEIGHT SCALE (OPTIONAL)
CHLORINATOR/TANK INFLUENT PIPING		
6	1	FLOAT VALVE - KERICK PT100-SS
6A	1	316SS ROD - 1B166917
6B	1	FLOAT BALL ROUND 6" - KERICK PFO6
7	1	1" SLIP X THREAD SCH. 40 PVC 90° ELBOWS
8	1	1" SCH. 40 PVC PIPE
8A	8	1"Ø X 1 3/8" LG. SCH. 40 PVC PIPE
9	1	1 1/2" SCH. 40 PVC PIPE
10	1	1 1/2" SCH. 40 PVC MACHINED PLUG
11	1	1 1/4" X 1 1/2" PVC BUSHING
12	1	1" SCH. 80 PVC THREAD X THREAD 90° ELBOW
13	1	F-42040LN-16 FLOW METER W/FITINGS-SHIP LOOSE
25	1	1 1/2" X 1" REDUCING COUPLING
27	2	1" SCH. 80 PVC THREAD CLOSE NIPPLES
28	1	1 1/2" SCH. 40 PVC SLIP X SLIP 90°
29	1	1" SCH. 80 PVC SLIP X THREAD 90°
30	1	1 1/2" SCH. 80 PVC SLIP X SLIP UNION
BOOSTER PUMP PIPING		
14	1	1 1/2" SLIP X THREAD SCH. 40 PVC 90° ELBOW
15	1	1 1/2" SCH. 80 PVC MALE ADAPTOR
17	AR	1 1/4" SPA FLEX PVC
18	2	1 1/4" SCH. 80 PVC FLANGES
19	1	CHLORINE BOOSTER PUMP
20	1	MADISON LOW LEVEL SWITCH
21	1	1" GATE VALVE-SHIP LOOSE
22	1	FLAP CHECK VALVE-SHIP LOOSE
23	2	1 1/4" X 1 1/2" REDUCING BUSHING-SHIP LOOSE
24	1	1 1/4" X 6" PIECE OF PIPE
26	1	1 1/2" SCH. 80 PIECE OF PIPE
31	1	1 1/2" X 1" SCH. 40 REDUCING BUSHING SLIP X SLIP



**axial**  
WTP

TITLE: AXIAL ACCU-TAB 2150P CHLORINATOR W/ GRUNDFOS PUMP WITH EQUIPMENT LIST & TABS

DRAWN: RMH      DATE: 18 OCT 2016

SCALE: 3/8" = 1"

DWG ACCU-TAB 2150P      REV 0

**A1** CHLORINATOR DETAILS  
NOT TO SCALE

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
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CONSULTANTS



SEAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**CHLORINE  
EQUIPMENT DETAILS**

SHEET NO:  
**C-505**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets\_utilities\_PHASE III\03\_TYP\268943\_C-501-C-502.dwg

3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May Drawings\Structural\S001 General Notes.dwg

**DESIGN CRITERIA**

- CODES:
  - IBC 2021. INTERNATIONAL BUILDING CODE.
  - ASCE 7-16. MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
  - ACI 318-19. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
  - AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION.
- RISK CATEGORY OF STRUCTURE: 1 (ONE) (PER ASCE 7-16 TABLE 1.5-1)
- DEAD LOADS - APPLY ACTUAL WEIGHT OF COMPONENTS, CLADDING, AND APPURTENANCES
- LIVE LOADS
  - ROOF: 20 PSF (NOT REDUCED)
  - FLOOR: NOT APPLICABLE
- SNOW LOAD:
 

GROUND SNOW LOAD = 30 PSF  
 EXPOSURE FACTOR (SURFACE ROUGHNESS B, SHELTERED) -  $C_e = 1.2$   
 THERMAL FACTOR -  $C_t = 1.0$   
 SNOW IMPORTANCE FACTOR -  $I_s = 0.80$   
 FLAT ROOF SNOW LOAD -  $P_s = 20.2$  PSF  
 SLOPED ROOF SNOW LOAD -  $P_s = 14.11$  PSF  
 RAIN ON SNOW SURCHARGE = NA
- WIND LOAD:
 

BASIC WIND SPEED = 99 MPH (RC = I)  
 EXPOSURE B  
 WIND IMPORTANCE FACTOR -  $I_w = 1.00$   
 INTERNAL PRESSURE COEFFICIENT (C<sub>gp</sub>) = +/- 0.18
- SEISMIC LOAD:
 

SEISMIC IMPORTANCE FACTOR  $I_s = 1.00$   
 MAPPED SPECTRAL ACCELERATION PARAMETERS:  
 $S_a = 0.507$   
 $S_1 = 0.166$

SOIL SITE CLASS = D

DESIGN SPECTRAL ACCELERATION PARAMETERS:  
 $S_{DS} = 0.471$   
 $S_{D1} = 0.251$

SEISMIC DESIGN CATEGORY = C

BASIC SEISMIC FORCE RESISTING SYSTEM:  
 BEARING WALL SYSTEM, ORDINARY REINFORCED MASONRY WALLS.

RESPONSE MODIFICATION FACTOR: R = 6.5  
 SEISMIC RESPONSE COEFFICIENT:  $C_s = 0.06$

**GENERAL**

- CONSTRUCTION DOCUMENTS:
  - IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS WILL GOVERN.
  - SPECIFIC NOTES AND DETAILS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS.
  - DETAILS DESIGNATED AS "TYPICAL" APPLY IN SIMILAR CONDITIONS UNLESS SPECIFIC DETAILS ARE PROVIDED.
  - WHERE NO SPECIFIC DETAILS ARE SHOWN, MATCH CONSTRUCTION DETAILS SHALL APPLY FOR SIMILAR CONDITIONS ON THE PROJECT. CONFIRM DETAILS WITH ENGINEER BEFORE CONSTRUCTION.
- DIMENSIONS:
  - DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS.
  - CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD.
  - NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- PROJECT COORDINATION:
  - COORDINATE STRUCTURAL WORK WITH ALL REQUIREMENTS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND ALL OTHER PROJECT DRAWINGS.
  - SEE ARCHITECTURAL DRAWINGS FOR WORK RELATED TO STRUCTURAL DETAILS SUCH AS:
    - SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS EXCEPT AS NOTED.
    - SIZE AND LOCATION OF INTERIOR NON-LOAD BEARING PARTITIONS.
    - SIZE AND LOCATION OF CURBS, FLOOR DRAINS, SLOPES, DEPRESSIONS, AND CHANGES IN LEVEL, EXCEPT AS NOTED.
    - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, EXCEPT AS NOTED.
    - REQUIREMENTS FOR FIRE RESISTANT RATED ASSEMBLIES.
    - FINISHES.
    - DIMENSIONS AND ORIENTATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
  - SEE MECHANICAL AND ELECTRICAL PLANS FOR:
    - PIPES, DUCTS, CONDUITS, AND OPENINGS IN WALLS AND FLOORS, EXCEPT AS NOTED.
    - SIZE AND LOCATIONS OF EQUIPMENT PADS AND EQUIPMENT SLABS.
    - EQUIPMENT MOUNTING REQUIREMENTS, WHEN APPLICABLE.
  - DO NOT LOCATE EQUIPMENT PADS, CONCRETE OR OTHER BASE MATERIALS, ON ROOFS OR SUSPENDFLOORS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- SUBMITTALS:
  - ANY WORK THAT IS FABRICATED OR INSTALLED BEFORE REQUIRED SUBMITTALS FOR THAT WORK ARE SUBMITTED AND REVIEWED IS AT THE CONTRACTOR'S RISK AND MAY BE REQUIRED TO BE MODIFIED OR REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
  - REVIEW OF SUBMITTALS IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. SUBMITTAL REVIEW DOES NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL CONTRACT REQUIREMENTS AND CONFORMANCE SPECIFIED IN THE CONTRACT DOCUMENTS.
  - DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SHOWN ON SUBMITTALS AND NOTED PER THE FOLLOWING:
    - DEVIATIONS SHALL BE NOTED ON ATTACHED SEPARATE SHEET, PREPARED ON CONTRACTOR'S LETTERHEAD. SPECIFICALLY NOTE ON SUBJECT SUBMITTAL ANY ITEMS DEVIATING FROM THE CONTRACT DOCUMENTS OR PREVIOUSLY REVIEWED SUBMITTALS, AND REQUEST APPROVAL.
    - ONLY DEVIATIONS THAT ARE SPECIFICALLY NOTED AS APPROVED IN THE ENGINEER'S REVIEW ARE APPROVED FOR INCORPORATION INTO THE WORK. DEVIATIONS THAT ARE NOTED AS "NOT APPROVED", AND DEVIATIONS THAT ARE NOT COMMENTED ON, ARE NOT APPROVED FOR INCORPORATION INTO THE WORK.
  - CHANGES TO CONTRACT DOCUMENTS:
    - CHANGES TO THE CONTRACT DOCUMENTS THAT DO NOT AFFECT THE PROJECT COST OR SCHEDULE MAY BE ISSUED BY THE ENGINEER OF RECORD BY ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (ASI), RESPONSES TO REQUESTS FOR INFORMATION (RFI), COMMENTS ON SUBMITTALS, OR BY OTHER WRITTEN DOCUMENT.
    - CHANGES TO THE CONTRACT DOCUMENTS WILL NOT BE ISSUED VERBALLY, BY PHONE, OR IN PERSON. DO NOT INCORPORATE CHANGES TO THE CONTRACT DOCUMENTS THAT HAVE BEEN ISSUED VERBALLY WITHOUT WRITTEN DOCUMENTATION.
    - CHANGES TO THE CONTRACT DOCUMENTS THAT AFFECT THE PROJECT COST OR SCHEDULE CAN ONLY BE ISSUED IN WRITING BY THE OWNER. THE ENGINEER DOES NOT HAVE AUTHORITY TO ISSUE CHANGES THAT AFFECT PROJECT COST OR SCHEDULE.
    - IF THE ENGINEER ISSUES ANY CHANGES TO THE CONTRACT DOCUMENTS THAT THE CONTRACTOR BELIEVES AFFECTS THE PROJECT COST OR SCHEDULE, DO NOT PROCEED WITH THE CHANGE. NOTIFY THE OWNER AND ENGINEER OF THE PROPOSED CHANGE AND IMPACT ON COST AND SCHEDULE.
    - WORK DONE ON A CHANGE THAT IMPACTS PROJECT COST OR SCHEDULE, THAT HAS NOT BEEN ISSUED IN WRITING BY THE OWNER, IS AT THE CONTRACTOR'S RISK. THE CONTRACTOR MAY NOT BE PAID FOR THIS WORK, AND THE WORK MAY BE REQUIRED TO BE MODIFIED OR REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION:**

- THE STRUCTURE SHOWN ON THE DRAWINGS IS DESIGNED TO BE STABLE IN THE FINAL CONFIGURATION. THE CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY BRACING, SHORING, AND OTHER SUPPORT AS REQUIRED FOR STABILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT DAMAGE OR OVERSTRESS PERMANENT ELEMENTS WITH TEMPORARY BRACING, SHORING, OR OTHER SUPPORTS.
- USE CONSTRUCTION SEQUENCES THAT WILL NOT RESULT IN DAMAGE TO PERMANENT COMPONENTS FROM THERMAL STRESSES DURING CONSTRUCTION.
- DO NOT CUT, NOTCH, OR MODIFY SHOP-FABRICATED STRUCTURAL MEMBERS IN THE FIELD UNLESS SHOWN ON THE DRAWINGS OR SUBMITTED AND APPROVED BY THE ENGINEER.
- NON-BEARING PARTITIONS:
  - PROVIDE HANGERS, SUPPORTS, BRACING AND ATTACHMENTS FOR UTILITIES AND EQUIPMENT AS SHOWN ON DRAWINGS, AS SPECIFIED, OR AS SUBMITTED AND APPROVED.
  - PROVIDE POSITIVE CONNECTIONS FROM ALL UTILITIES AND EQUIPMENT TO SUPPORTING STRUCTURES TO RESIST LATERAL LOADS (WIND AND SEISMIC) BY WELDING, BOLTING OR CLAMPING. WELD OR BOLT MECHANICAL UNITS TO SUPPORTING CURBS AND WELD OR BOLT CURBS TO SUPPORTING STRUCTURE.

**FOUNDATION**

- THE GEOTECHNICAL REPORT AND ITS RECOMMENDATIONS SHALL BE FOLLOWED AND SHALL BE CONSIDERED MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE PRESENTED IN THE CONSTRUCTION DOCUMENTS.
- DESIGN ALLOWABLE BEARING PRESSURE = 2000 PSF
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING, AND PROTECTION OF EXISTING CONSTRUCTION.
- PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- EXCAVATION AND COMPACTION SHALL BE APPROVED BY THE GOVERNING AGENCY AND THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BRACE AND PROTECT ALL BUILDING ELEMENTS BELOW GRADE FROM LATERAL LOADS UNTIL FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. BACKFILL SHALL NOT BE PLACED BEHIND WALLS OR STEM WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS REPORT.
- FOR ALL SIDES OF FOOTINGS, WALLS, AND GRADE BEAMS. NEAT FORMING (PLACING CONCRETE WITHOUT FORMWORK, OR DIRECTLY AGAINST EARTH) IS NOT PERMITTED.
- PLACE HORIZONTAL PIPES, CONDUITS, AND OTHER UTILITIES A MINIMUM OF 4" BELOW BOTTOM OF CONCRETE SLABS ON GRADE.
- OWNER WILL ENGAGE THE PROJECT GEOTECHNICAL ENGINEER OR ANOTHER OUTSIDE CONSULTANT COMPETENT TO COMPLETE THE REQUIRED TESTING AND STRUCTURAL INSPECTION, TO PERFORM THE SPECIAL INSPECTION AND TESTING AS SPECIFIED AND STATED IN THE "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS".

**EXPANSION ANCHORS:**

- PROVIDE ONE OF THE FOLLOWING:
  - HILTI KWIK BOLT TZZ BY HILTI, INC., ICC-ES ESR-4266.
  - SIMPSON STRONG BOLT 2 BY SIMPSON STRONG TIE, ICC-ES ESR-3037.
  - APPROVED EQUAL, RATED FOR CRACKED CONCRETE IN ACCORDANCE WITH ACI 318, WITH EQUAL OR GREATER LOAD CAPACITIES.
  - FINISH - ZINC PLATED.
- LENGTHS SHOWN ON DRAWINGS ARE EMBEDMENT LENGTHS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO PROVIDE REQUIRED EMBEDMENT AND CONNECTION.
- DRILL AND CLEAN HOLE AND INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S INSTRUCTIONS. TIGHTEN TO MANUFACTURER'S REQUIRED INSTALLATION TORQUE.
- DO NOT CUT CONCRETE STEEL REINFORCING WHEN DRILLING INTO CONCRETE. REGULAR SPACED AND TYPICAL ANCHOR POSITION MAY BE ADJUSTED A MAXIMUM OF 2" IN THE FIELD TO AVOID REINFORCING. ALTHOUGH, DO NOT MOVE ANCHORS CLOSER TO CONCRETE EDGES THAN IS SHOWN IN THE DRAWINGS.
- MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE:
 

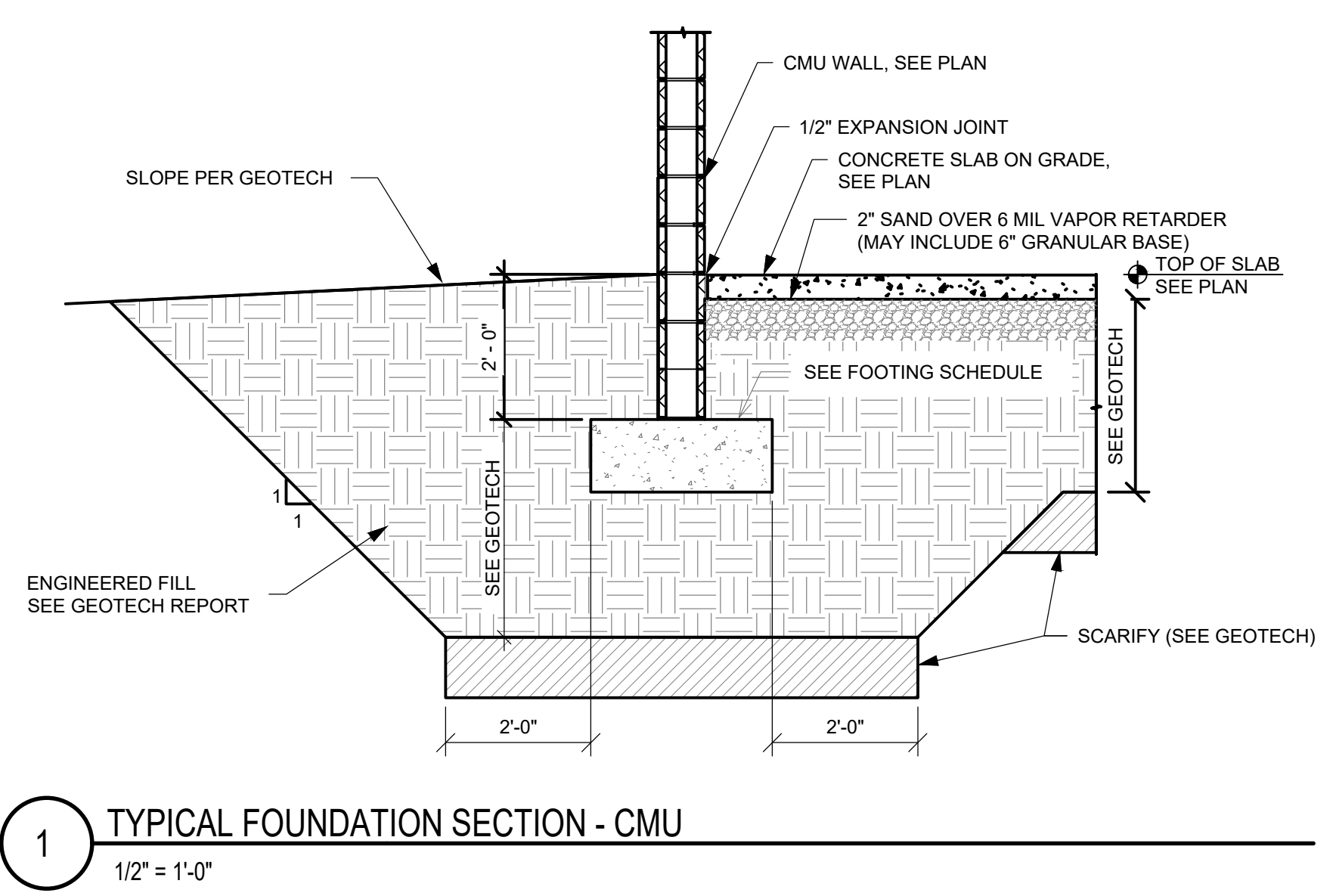
DIAMETER:	EMBEDMENT (IN):
3/8"	2
1/2"	3 1/4"
5/8"	4"
3/4"	4 3/4"
- SPECIAL INSPECTOR WILL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR CONFIGURATION, AND TIGHTENING TORQUE.

**ADHESIVE ANCHORS:**

- FOR THREADED RODS AND REINFORCING BARS IN SOLID CONCRETE AND GROUTED MASONRY, PROVIDE ONE OF THE FOLLOWING:
  - HILTI HIT-RE 500-V3 ADHESIVE ANCHORING SYSTEM BY HILTI, INC., ICC-ES ESR-3814.
  - SIMPSON SET-XP ADHESIVE ANCHORING SYSTEM BY SIMPSON STRONG TIE, ICC-ES ESR-2508.
  - APPROVED EQUAL, RATED FOR CRACKED CONCRETE IN ACCORDANCE WITH ACI 318, WITH EQUAL OR GREATER LOAD CAPACITIES.
- FOR THREADED RODS IN HOLLOW MASONRY, PROVIDE HILTI HIT HY-270 ADHESIVE ANCHORING SYSTEM BY HILTI, INC., ICC-ES ESR-4143.
- THREADED RODS ARE REQUIRED TO BE FULLY THREADED STEEL ROD, MEETING REQUIREMENTS OF ASTM A1554, GRADE 36. FINISH SHALL BE ZINC PLATED.
- LENGTHS SHOWN ON DRAWINGS ARE EMBEDMENT LENGTHS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO PROVIDE REQUIRED EMBEDMENT AND ENOUGH PROJECTION FOR TOP CONNECTION.
- IN SOLID CONCRETE AND GROUTED MASONRY, DRILL HOLES WITH ROTARY HAMMER DRILL. IN HOLLOW MASONRY, DRILL WITHOUT DAMAGING FACE SHELL OF MASONRY UNITS.
- CLEAN HOLE AND INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S SPECIFICATIONS. USE HILTI "PISTON PLUG" ATTACHMENT OR EQUAL IN SOLID CONCRETE AND GROUTED MASONRY TO CONTROL SPREADING ADHESIVE.

**ABBREVIATIONS**

ABBREVIATIONS	ABBREVIATIONS	ABBREVIATIONS	ABBREVIATIONS
AB	ANCHOR BOLT	LONG	LONGITUDINAL
AFF	ABOVE FINISHED FLOOR	LT WT	LIGHTWEIGHT
ALT	ALTERNATE	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECT	LWC	LIGHTWEIGHT CONCRETE
@	AT (MEASUREMENT)	MAX	MAXIMUM
BN	BOX NAIL	MCJ	MASONRY CONTROL JOINT
BOB	BOTTOM OF BEAM	MECH	MECHANICAL
BOD	BOTTOM OF DECK	MFR(S)	MANUFACTURER(S)
BOF	BOTTOM OF FOOTING	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRG	BRACING	N	NEW
CIP	CAST IN PLACE	NA	NOT APPLICABLE
CJ	CONTROL / CONSTRUCTION	NIC	NOT IN CONTRACT
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CLB	CENTERLINE OF BEAM	OCEF	ON CENTER EACH FACE
CLC	CENTERLINE OF COLUMN	OCEW	ON CENTER EACH WAY
CLF	CENTERLINE OF FOOTING	OD	OUTSIDE DIAMETER
CLR	CLEAR	OF	OUTSIDE FACE
CLW	CENTERLINE OF WALL	OFW	OUTSIDE FACE OF WALL
CONC	CONCRETE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPR	OPPOSITE
CONN	CONNECTION	OPT	OPTIONAL
CONT	CONTINUOUS	ORIG	ORIGINAL
CSK	COUNTERSUNK	OSB	ORIENTED STRAND BOARD
D	DEEP, DEPTH	PC	PRECAST CONCRETE
DBL	DOUBLE	PED	PEDESTAL
DEMO	DEMOLITION	PERP	PERPENDICULAR
DET	DETAIL	PLF	POUNDS PER LINEAR FOOT
OR DIA	DIAMETER	PLYWD	PLYWOOD
DIAG	DIAGONAL	PREFAB	PREFABRICATED
DIM	DIMENSION	PRELIM	PRELIMINARY
DN	DOWN	PS CONC	PRESTRESSED CONCRETE
DWG(S)	DRAWING(S)	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
(EF)	EACH FACE	PSL	PARALLEL STRAND LUMBER
EJ	EXPANSION JOINT	PT	POST TENSIONED
EL	ELEVATION	PT	PRESSURE TREATED
EOS	EDGE OF SLAB	PTN	PARTITION
EQ	EQUAL	PWJ	PLYWOOD WEB JOIST
EQL SP	EQUALLY SPACED	R	RADIUS
EQUIP	EQUIPMENT	RC	REINFORCED CONCRETE
EXP ANC	EXPANSION ANCHOR	REINF	REINFORCEMENT
EW	EACH WAY	RTU	ROOF TOP UNIT
FDN	FOUNDATION	SER	STRUCTURAL ENGINEER OF...
FF	FINISHED FLOOR	SHTHG	SHEATHING
FIN GR	FINISHED GRADE	SIM	SIMILAR
FLG	FLANGE	SOG	SLAB ON GRADE
FLR	FLOOR	SO	SQUARE
FOC	FACE OF CONCRETE	STAG	STAGGERED
FOF	FACE OF FINISH	STD	STANDARD
FOM	FACE OF MASONRY	STIF	STIFFENER
FOS	FACE OF STEEL / STUD	STIR	STIRRUP
GA	GAUGE	SP	SPACING
GALV	GALVANIZED	T&B	TOP AND BOTTOM
GLU LAM	GLUE LAMINATED WOOD	T&G	TONGUE AND GROOVE
GLB	GLUE LAMINATED BEAM	THK	THICKNESS
GR BM	GRADE BEAM	THRU	THROUGH
GSN	GENERAL STRUCTURAL NOTES	TOB	TOP OF BEAM
HAS	WELDED HEADED ANCHOR...	TOBP	TOP OF BEARING PLATE
HDR	HEADER	TOP	TOP OF PLATE
HGR	HANGER	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOD	TOP OF DECK
HSB	HIGH-STRENGTH BOLT	TOF	TOP OF FOOTING
HSS	HOLLOW STRUCTURAL SECTION	TOL	TOP OF LEDGER
ID	INSIDE DIAMETER	TOM	TOP OF MASONRY
IF	INSIDE FACE	TOP	TOP OF PLATE
IFW	INSIDE FACE OF WALL	TOS	TOP OF STEEL
IJ	ISOLATION JOINT	TOW	TOP OF WALL
INT	INTERIOR	TYP	TYPICAL
K	KIP = 1000 POUNDS	UNO	UNLESS NOTED OTHERWISE
KOBB	KNOCK OUT BOND BEAM	VAR	VARIABLE
KSI	KIPS PER SQUARE INCH	VERT	VERTICAL
L	ANGLE	VIF	VERIFY IN FIELD
LBS OR #	POUNDS	W/	WITH
LD BRG	LOAD BEARING	WO	WITHOUT
LIN	LINEAR	WOOD	WOOD
LL	LIVE LOAD	WF	WIDE FLANGE
LLH	LONG LEG HORIZONTAL	WLD	WELDED
LLV	LONG LEG VERTICAL	WWF	WELDED WIRE FABRIC



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CONSULTANTS

WILL B. ROSS  
 NEW MEXICO  
 25648  
 WILSON  
 PROFESSIONAL ENGINEER  
 03/12/26

PROJECT NAME: LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

REV.	DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	MAB	BY
IFC	03/12/26				

PROJECT NO: 20-600-894-03  
 DESIGNED BY: MAB  
 DRAWN BY: MAB  
 CHECKED BY: WBR  
 DATE:

SHEET TITLE: STRUCTURAL GENERAL NOTES

SHEET NO: S-001

3/11/2026 M:\MSDL\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May Drawings\Structural\S002 Concrete Notes.dwg

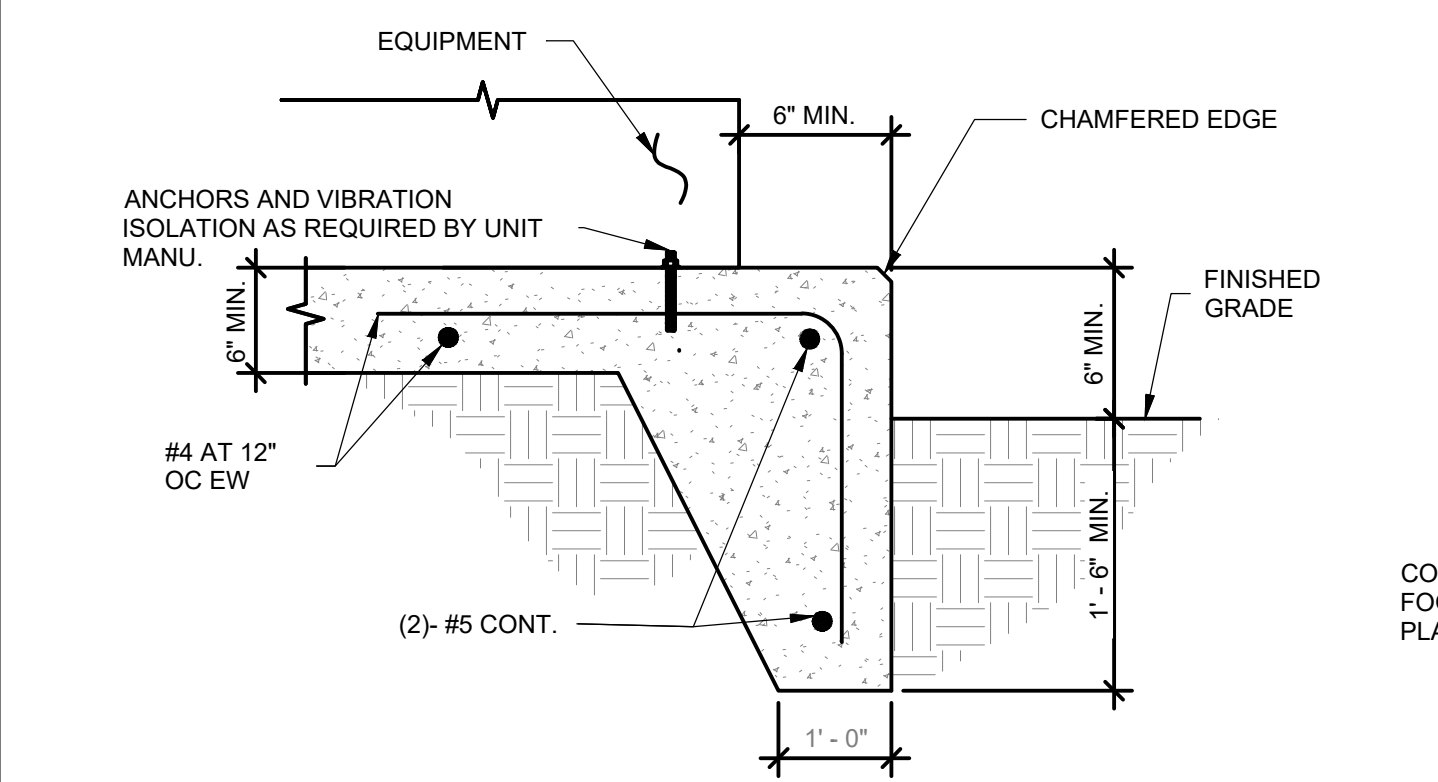
- CONCRETE**
- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
    - EXTERIOR SLABS ON GRADE AND MISCELLANEOUS EQUIPMENT PADS: 4000 psi
    - INTERIOR SLABS ON GRADE: 4000 psi
    - ALL OTHER CONCRETE: 3000 psi
  - CONCRETE JOINTS
    - SLABS ON GRADE
      - USE CONCRETE SLAB CONTROL OR CONSTRUCTION JOINTS AS SHOWN ON PLANS AND TYPICAL DETAILS.
      - AT JUNCTION OF SLABS ON GRADE AND VERTICAL CONCRETE OR MASONRY WALL OR COLUMNS, USE BOND BREAKER OR EXPANSION JOINT AS SHOWN ON DRAWINGS.
    - FOOTINGS: USE TIGHT BUTT JOINTS WITH ALL HORIZONTAL REINFORCING CONTINUOUS THROUGH THE JOINT, AT LOCATIONS DETERMINED BY THE CONTRACTOR.
    - CONCRETE STEM WALLS, SITE WALLS, AND RETAINING WALLS: USE VERTICAL CONTROL OR CONSTRUCTION JOINT AS SHOWN ON TYPICAL DETAILS AT A MAXIMUM HORIZONTAL SPACING OF TWICE THE WALL HEIGHT AND NOT MORE THAN 20-FEET.
    - CONCRETE BEAMS, COLUMNS, BUILDING WALLS, AND SUSPENDED SLABS:
      - LOCATE VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS AS SHOWN ON DRAWINGS.
      - UNLESS NOTED OTHERWISE, REINFORCING SHALL BE CONTINUOUS THROUGH JOINTS. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL TO THE ENGINEER. PROPOSED LOCATIONS FOR ANY CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS MAY REQUIRE ADDITIONAL REINFORCING, SPECIFIED BY THE ENGINEER. ADDITIONAL REINFORCING REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
  - UNLESS NOTED OTHERWISE, CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4-INCHES.
  - EMBEDDED PIPES, CONDUITS AND SLEEVES: SEE TYPICAL DETAILS FOR EMBEDS ALLOWED IN CONCRETE. SUBMIT TO THE ENGINEER ANY ADDITIONAL EMBEDS FOR REVIEW AND APPROVAL, NOT CONFORMING TO TYPICAL DETAILS. ADDITIONAL EMBEDS MAY REQUIRE ADDITIONAL REINFORCING, SPECIFIED BY THE ENGINEER. ADDITIONAL REINFORCING REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

- CONCRETE REINFORCING**
- FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCING.
  - ALL CONCRETE REINFORCING TO BE ASTM A615 GRADE 60 ( $f_y = 60,000$  psi).
  - CONCRETE REINFORCING SHALL NOT BE TACK WELDED OR WELDED.
  - HEAT SHALL NOT BE APPLIED TO COLD REINFORCING TO BEND IN THE FIELD FOR PLACEMENT.
  - REINFORCING SPLICES SHALL CONFORM TO THE TABLE PROVIDED ON THIS SHEET. CLASS B SPLICES SHALL BE USED UNLESS OTHERWISE NOTED.
  - CONCRETE CLEAR COVER TO REINFORCING SHALL BE AS FOLLOWS AND AS SPECIFIED PER ACI 318, UNLESS NOTED OTHERWISE.
 

A. CONCRETE CAST AND PERMANENTLY EXPOSED TO EARTH:	3 - INCHES
B. CONCRETE EXPOSED TO WEATHER:	
• NO. 6 THROUGH NO. 11 BAR:	2 - INCHES
• NO. 5 BAR AND SMALLER:	1 1/2 - INCHES
C. CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH:	
• IN CONCRETE SLABS, AND WALL: NO. 11 BARS AND SMALLER:	3/4 - INCH
• IN CONCRETE BEAMS AND COLUMNS:	1 1/2 - INCHES
D. SLABS ON GRADE:	
THICKNESS:	COVER (FROM TOP OF SLAB):
4" - 5"	1 1/2"
6"	2"
7" - 8" AND THICKER	2 1/2"
  - USE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 318. REINFORCING FOR SLABS ON GRADE, PLASTIC CHAIRS AND OR SAND/ADOBE BLOCKS ARE PERMITTED.
  - HORIZONTAL REINFORCING IN FOOTINGS, WALLS, AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR USE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 24-INCHES, WHICHEVER IS GREATER.
  - AT TEMPORARY OR PERMANENT REENTRANT CORNERS OF CONCRETE SLABS, AND AT DISCONTINUOUS ENDS OF CONCRETE SLAB CONTROL JOINTS, USE TWO #4 x 4'-0" AT 45 DEGREES TO THE MAIN REINFORCING. SPACE BARS 2-INCHES APART (MIN.) AND 2-INCHES FROM CORNER.
  - USE STANDARD HOOKS IN TOP BARS AT DISCONTINUOUS AND CANTILEVERED ENDS OF BEAMS.

**MAXIMUM SPACING OF CONTROL JOINTS SCHEDULE**

SLAB THICKNESS	SLUMP 4" TO 6"		SLUMP LESS THAN 4"
	MAXIMUM AGGREGATE SIZE LESS THAN 3/4"	MAXIMUM AGGREGATE SIZE 3/4" AND LARGER	
6"	12'	15'	18'



**12 TYPICAL EXTERIOR MECHANICAL EQUIP FOUNDATION**  
S002 SCALE: NTS

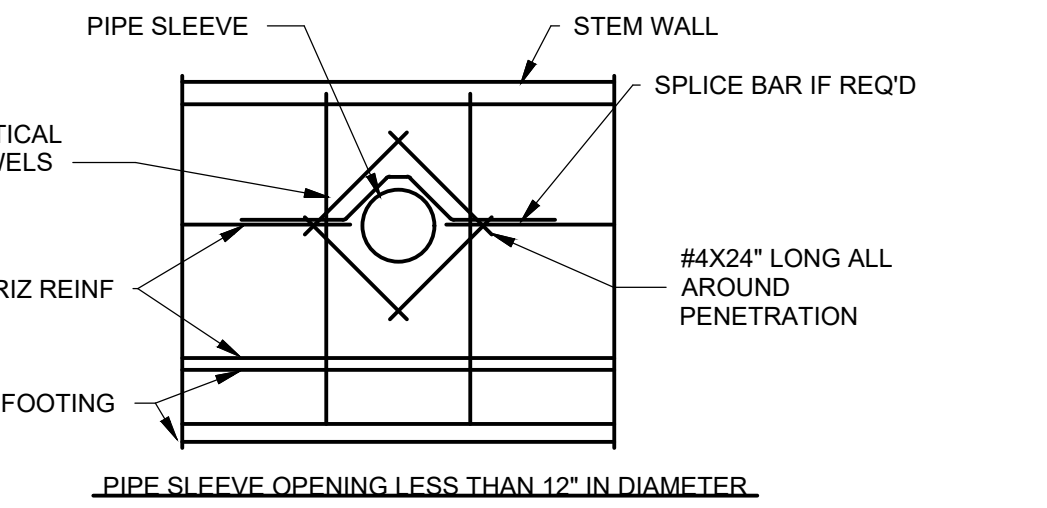
**SPLICE LENGTHS FOR REINFORCEMENT IN NORMAL WIEGHT CONCRETE**

REINFORCING YIELD STRENGTH 60 KSI  
CONCRETE COMPRESSIVE STRENGTH 4000 KSI

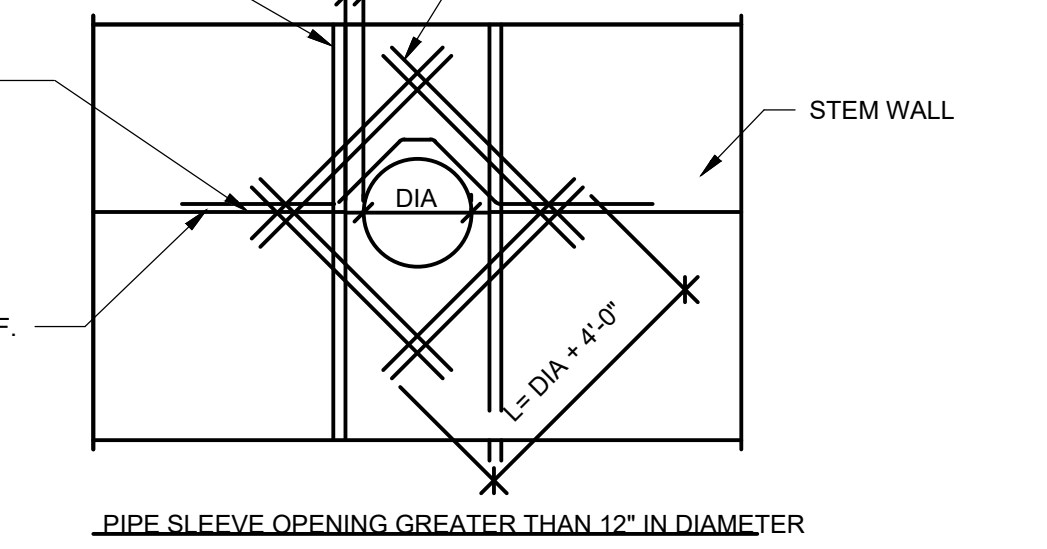
BAR SIZE	AREA, in <sup>2</sup>	DIA, in	CLEAR SPACING TO NEAREST ADJACENT BAR, in	Bottom Bars			Top Bars		
				MINIMUM EMBEDMENT LENGTH, in	CLASS "A" SPLICE LENGTH, in	CLASS "B" SPLICE LENGTH, in	MINIMUM EMBEDMENT LENGTH, in	CLASS "A" SPLICE LENGTH, in	CLASS "B" SPLICE LENGTH, in
#3	0.11	0.375	0.00 TO 0.75	21.35	22	28	27.75	28	37
			0.76 AND ABOVE	14.23	15	19	18.50	19	25
#4	0.20	0.500	0.00 TO 1.00	28.46	29	37	37.00	37	49
			1.01 AND ABOVE	18.97	19	25	24.67	25	33
#5	0.31	0.625	0.00 TO 0.75	35.58	36	47	46.25	47	61
			0.76 AND ABOVE	23.72	24	31	30.83	31	41
#6	0.44	0.750	0.00 TO 0.75	42.69	43	56	55.50	56	73
			0.76 AND ABOVE	28.46	29	37	37.00	37	49
#7	0.60	0.875	0.00 TO 0.75	62.26	63	81	80.93	81	106
			0.76 AND ABOVE	41.5	42	54	53.96	54	71
#8	0.79	1.000	0.00 TO 0.75	71.15	72	93	92.50	93	121
			0.76 AND ABOVE	47.43	48	62	61.66	62	81
#9	1.00	1.128	0.00 TO 0.75	80.28	81	105	104.34	105	136
			0.76 AND ABOVE	53.51	54	70	69.56	70	91
#10	1.27	1.270	0.00 TO 0.75	90.36	91	118	117.47	118	163
			0.76 AND ABOVE	60.24	61	79	78.31	79	102
#11	1.56	1.410	0.00 TO 0.75	100.32	101	131	130.42	131	170
			0.76 AND ABOVE	66.88	67	87	86.95	87	114

NOTE: ALL SPLICES TO BE CLASS B EXCEPT ONE HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.

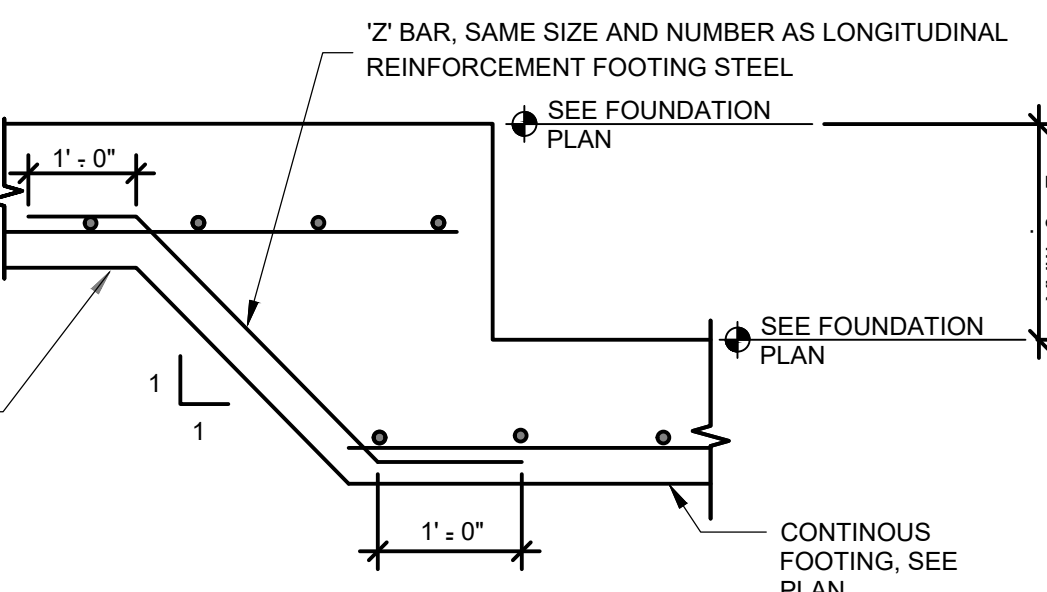
- SPLICE LENGTH NOTES:**
- CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION WHERE THE REINFORCEMENT AREA IS AT LEAST TWICE THAT REQUIRED.
  - CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
  - MINIMUM CONCRETE COVER MEASURED FROM THE BAR CENTER SHALL BE AT LEAST HALF THE MINIMUM CENTER TO CENTER OF BAR SPACING.
  - FOR 4500 PSI CONCRETE, MULTIPLY LENGTHS BY 0.816. BOTTOM BARS SHALL NOT HAVE AN EMBEDMENT LENGTH, FOR CLASS A SPLICE AND CLASS B SPLICE LENGTHS, OF LESS THAN 12-INCHES.



**6 TYPICAL DEPRESSED SLAB**  
S002 SCALE: NTS



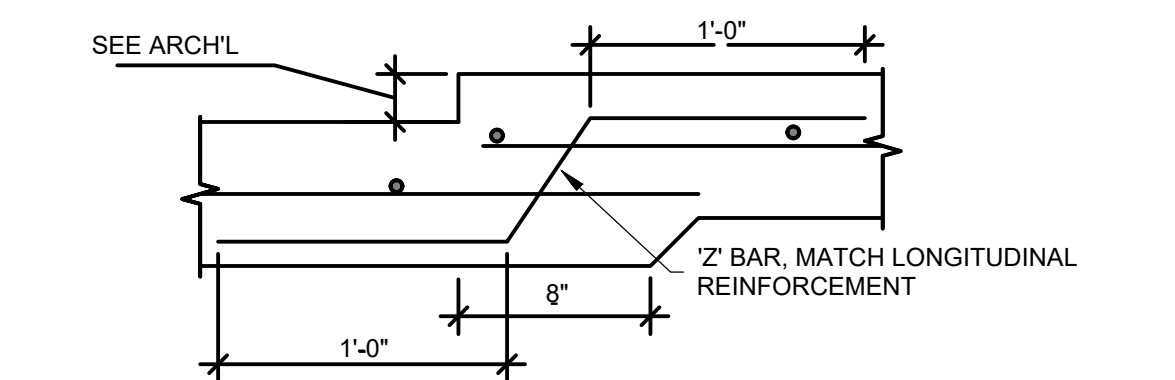
**7 TYPICAL HOUSEKEEPING PAD**  
S002 SCALE: NTS



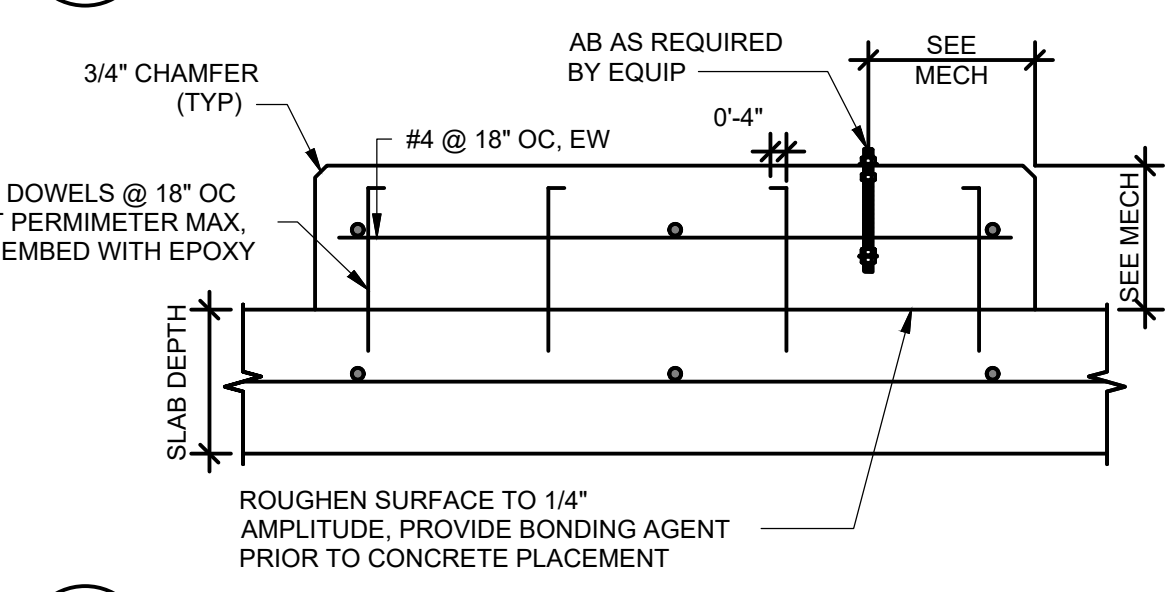
**10 TYPICAL PIPE PENETRATION**  
S002 SCALE: NTS



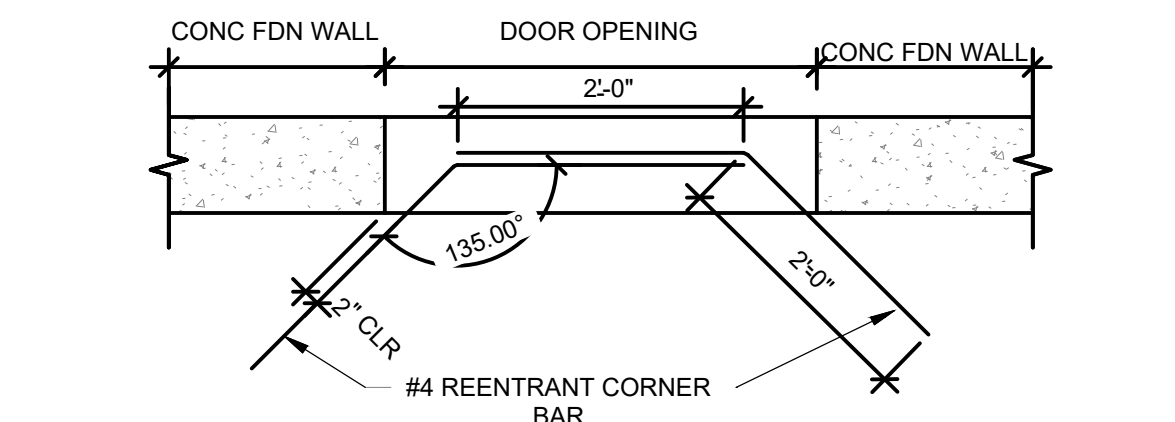
**11 TYPICAL STEPPED FOOTING**  
S002 SCALE: NTS



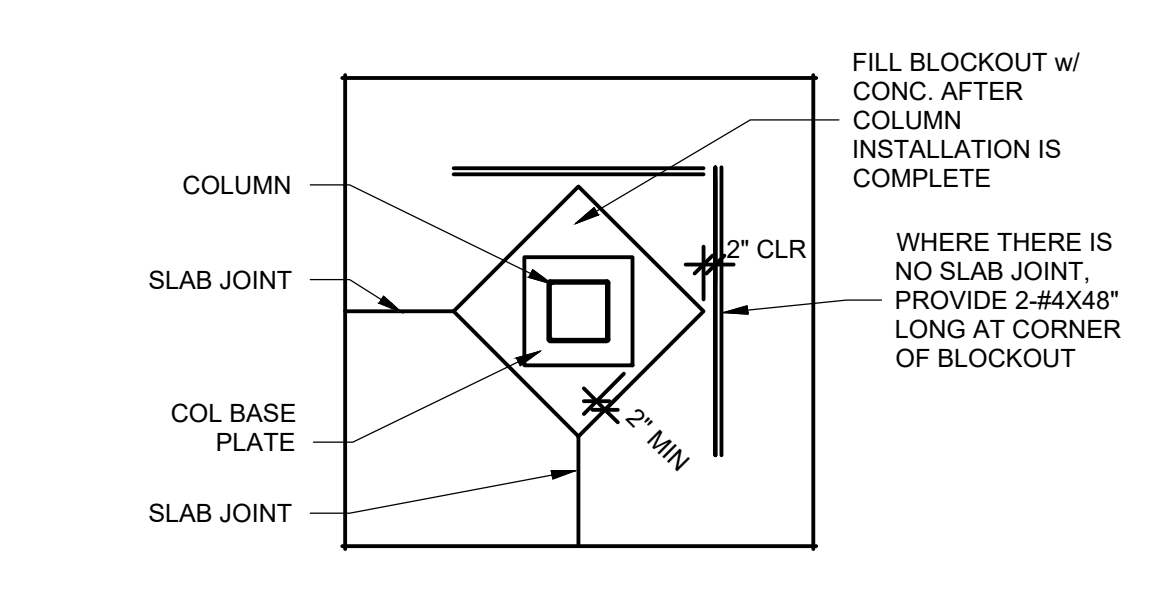
**8 TYPICAL THRESHOLD REINFORCING**  
S002 SCALE: NTS



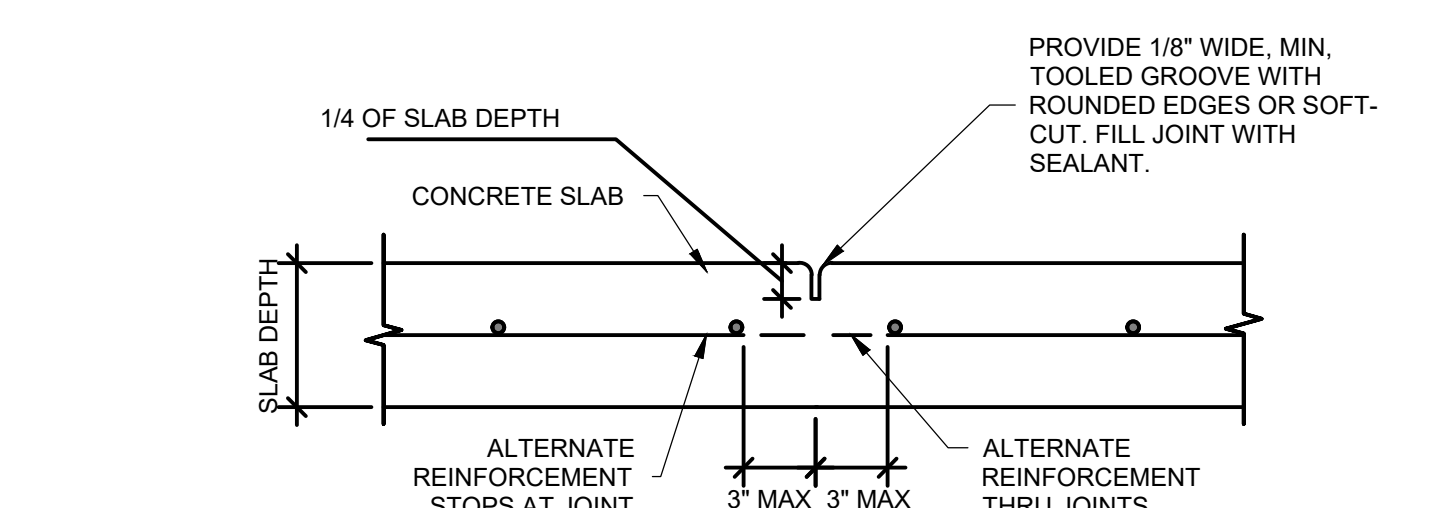
**9 TYPICAL REENTRANT CORNER**  
S002 SCALE: NTS



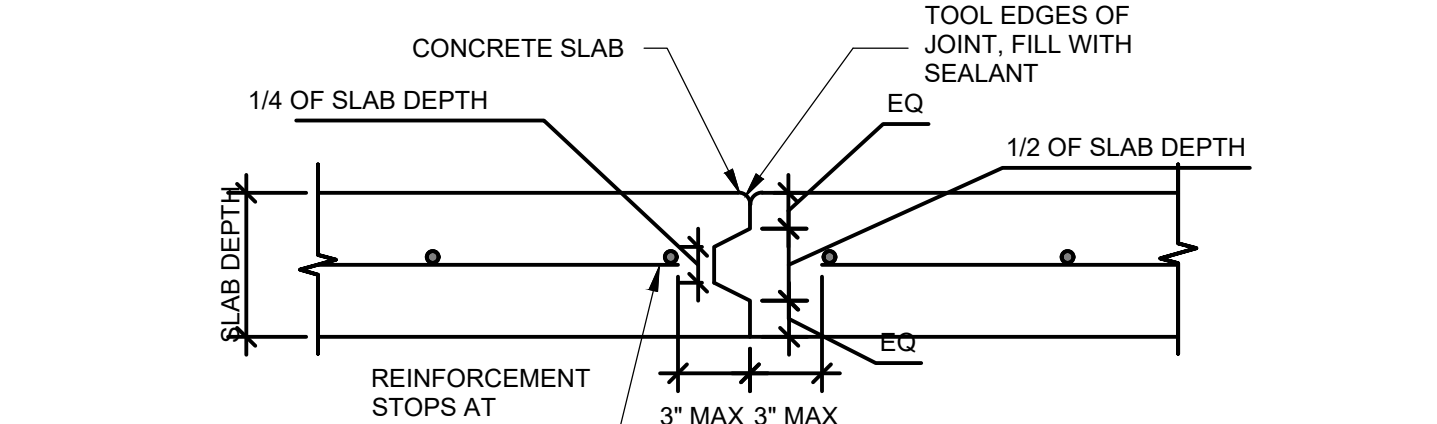
**4 TYPICAL PIPE PENETRATION AT FOUNDATION**  
S002 SCALE: NTS



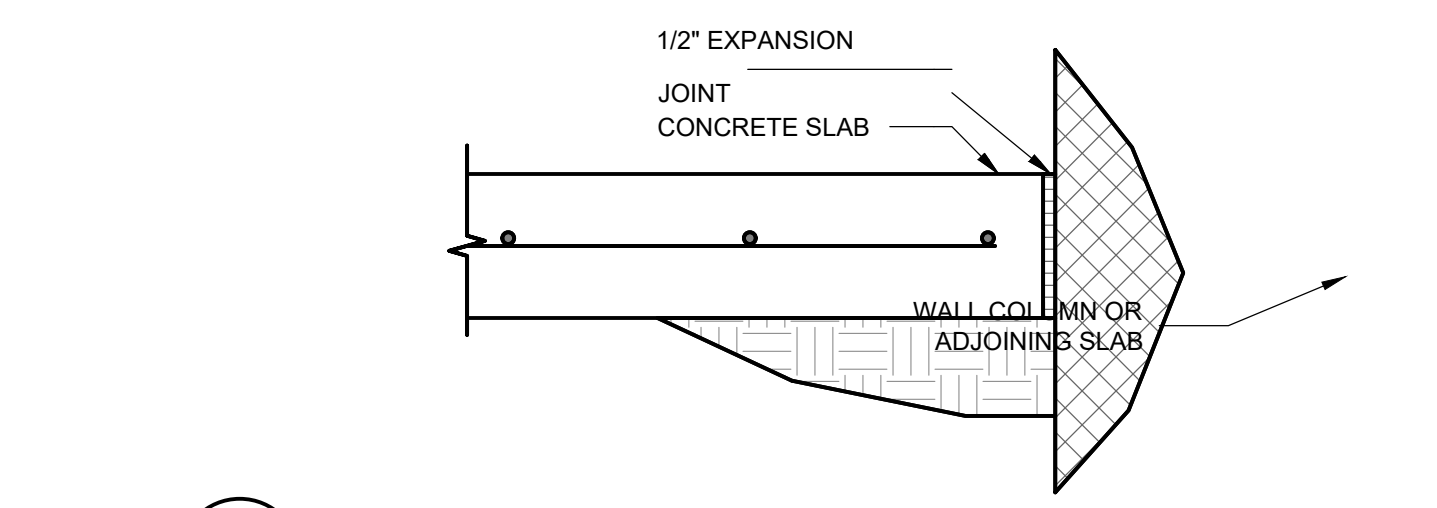
**5 TYPICAL CONCRETE CORNER REINFORCING**  
S002 SCALE: NTS



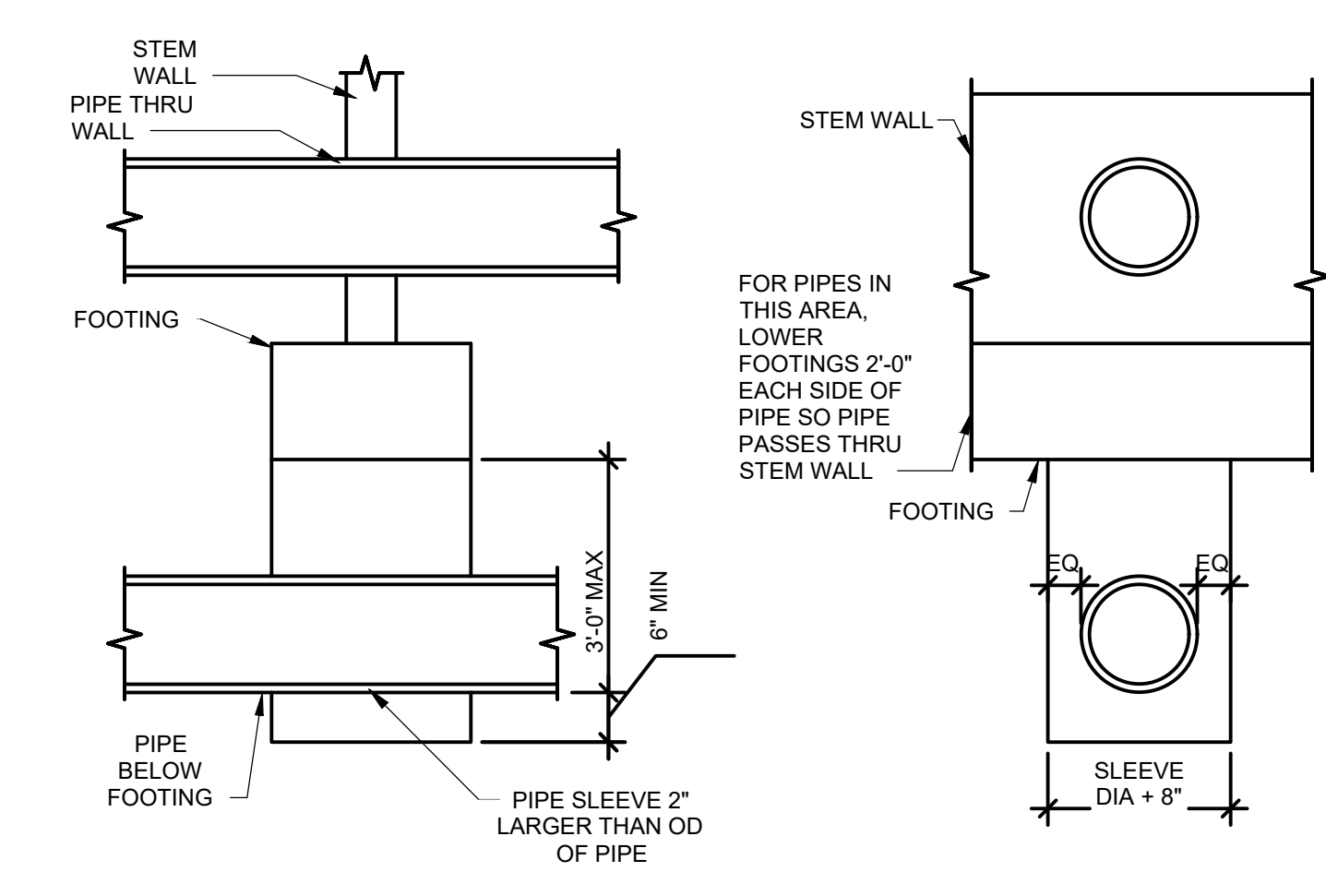
**1 TYPICAL CONTROL JOINT**  
S002 SCALE: NTS



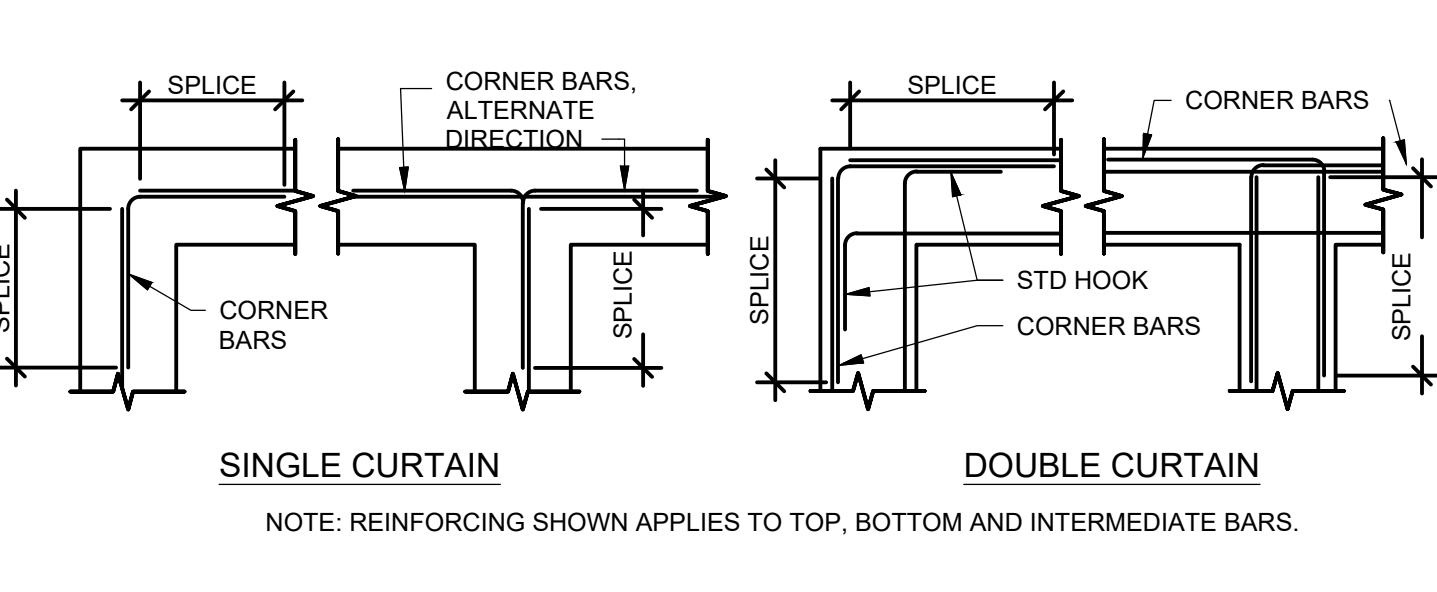
**2 TYPICAL CONSTRUCTION JOINT**  
S002 SCALE: NTS



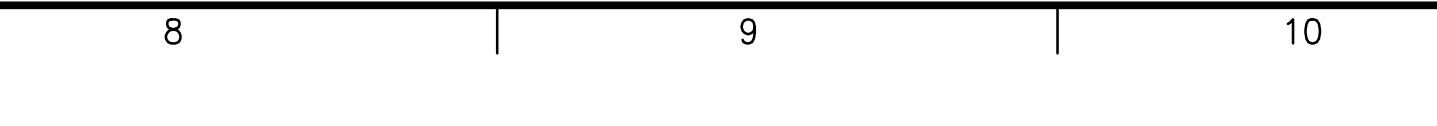
**3 TYPICAL EXPANSION JOINT**  
S002 SCALE: NTS



**12 TYPICAL EXTERIOR MECHANICAL EQUIP FOUNDATION**  
S002 SCALE: NTS



**13 TYPICAL STEPPED FOOTING**  
S002 SCALE: NTS



**14 TYPICAL THRESHOLD REINFORCING**  
S002 SCALE: NTS

**WILSON & COMPANY**  
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RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
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CONSULTANTS

WILL B. ROSS  
NEW MEXICO  
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Wilson  
PROFESSIONAL ENGINEER  
03/12/26

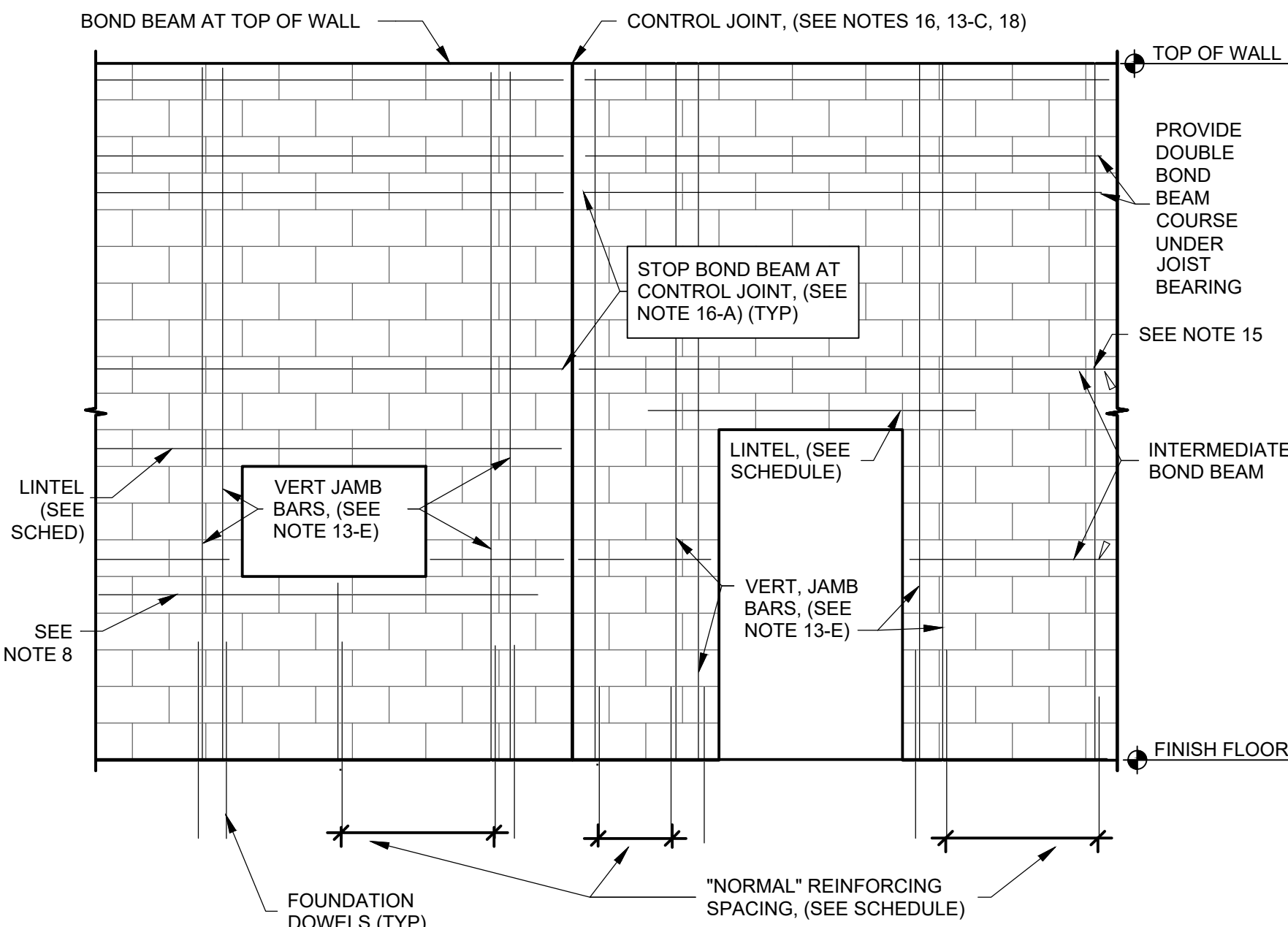
PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

NO.	REV.	DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	MAB	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR  
DATE: 03/12/26

SHEET TITLE  
**TYPICAL CONCRETE NOTES AND DETAILS**

SHEET NO:  
**S-002**



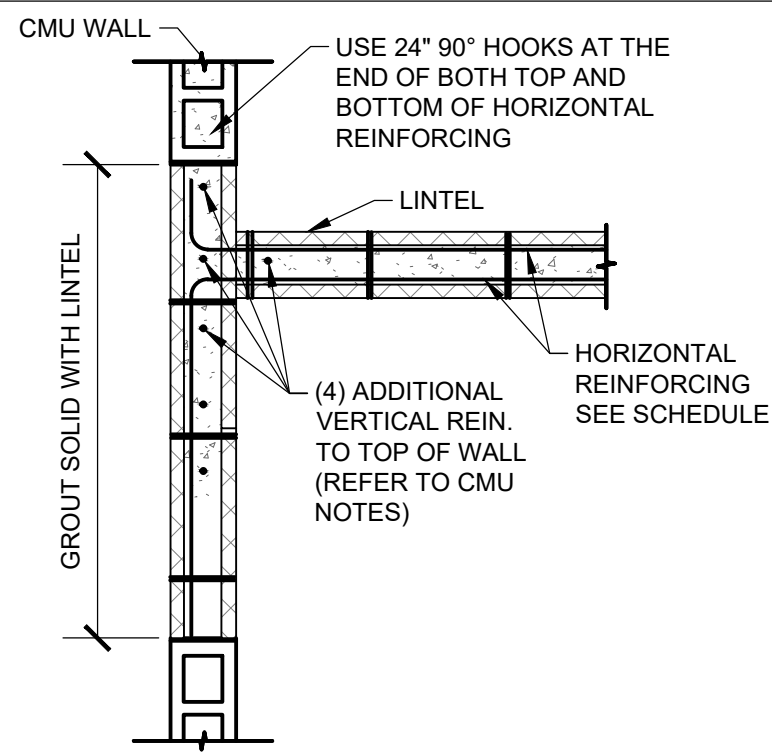
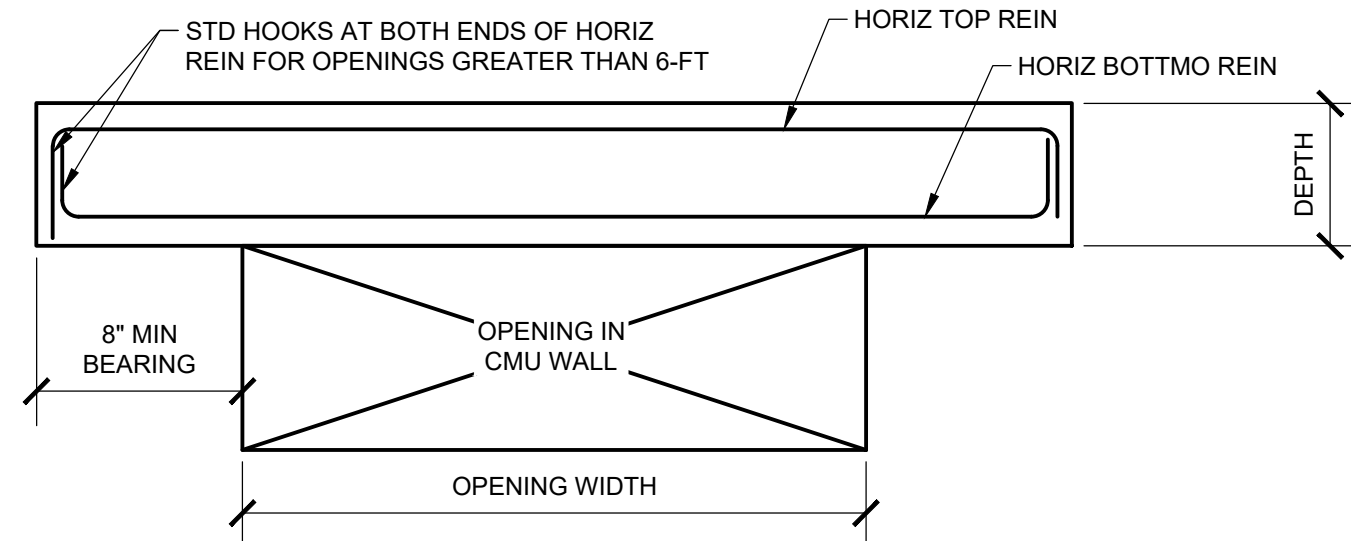
**MASONRY:**

- MASONRY DESIGN SHALL COMPLY WITH TMS 402-11 (ACI 530-11) AND THE APPLICABLE REQUIREMENTS OF THE CURRENT INTERNATIONAL BUILDING CODE. MASONRY CONSTRUCTION SHALL COMPLY WITH THE CURRENT IBC SPECIFICATION, TMS 602-11 (ACI 530-1-11), REQUIREMENTS OF THE PROJECT CONSTRUCTION DOCUMENTS, AND THESE PLANS AND SPECIFICATIONS. IF THERE IS A CONFLICT THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 OR C129. THE MINIMUM DESIGN 28 DAY COMPRESSIVE STRENGTH OF MASONRY:  $f_m = 1,500$  psi.
- MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270. USE MORTAR TYPE S (UNLESS OTHERWISE NOTED) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,800 psi.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF GROUT: 2,000 psi
- ALL CELLS WITH REINFORCEMENT SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL, INCLUDING BOND BEAMS.
- VERTICAL AND HORIZONTAL REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS AND AS INDICATED ON THE MASONRY WALL SCHEDULE.
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. MASONRY JOINT REINFORCING SHALL CONFORM TO ASTM A951 FOR LADDER OR TRUSS TYPE, ASTM A496 FOR DEFORMED WIRE, OR ASTM A185/ASTM A497 FOR WELDED WIRE AN INSTALLED PER TMS 602-11. WALL JOINT REINFORCEMENT EXPOSED TO THE EXTERIOR SHALL CONFORM TO THE REQUIREMENTS OF ASTM A580. FOR STAINLESS STEEL JOINT REINFORCEMENT.
- ALL REBAR SHALL BE LAPPED THE LARGER OF 40 DIAMETERS OR 2'-0".
- SPLICES IN HORIZONTAL REINFORCING WITHIN CONTROL JOINTED PANELS ARE NOT PERMITTED EXCEPT AT CORNERS. REBAR SHALL HAVE 1/2" MINIMUM CLEARANCE FROM INSIDE FACE OF CMU.
- BARs AROUND PERIMETER OF OPENINGS SHALL EXTEND BEYOND CORNERS OF OPENINGS THE LARGER OF 40 BAR DIAMETERS OR 2'-0".
- VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 2" X 3" IN PLAN.
- VERTICAL BARS SHALL BE HELD IN PLACE WITH CENTERING CLIPS, SPACERS, TIES, OR BY OTHER APPROVED METHODS.
- FOUNDATION DOWELS SHALL BE EMBEDDED IN AND EXTEND OUT OF THE FOUNDATION AT LOCATIONS WHERE VERTICAL MASONRY BARS ARE REQUIRED. DOWELS SHALL MATCH THE BAR SIZE AND LAP SPliced WITH VERTICAL MASONRY REINFORCING.
- VERTICAL WALL REINFORCING SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE TOP OF THE WALL AND BE EMBEDDED AT LEAST 6-INCHES INTO THE TOP BOND BEAM.
- IN ADDITION TO WALL SCHEDULE REINFORCING, PROVIDE ONE VERTICAL BAR (SAME BAR SIZE AS WALL SCHEDULE) IN MASONRY CELLS AT THE FOLLOWING LOCATIONS:
  - THREE ADJACENT CELLS AT ALL CORNERS:
  - TWO CELLS AT THE END OF THE DISCONTINUOUS WALLS:
  - TWO CELLS EACH SIDE OF ALL CONTROL OR EXPANSION JOINTS:
  - FOUR ADJACENT CELLS AT THE INTERSECTION OF THE TWO WALLS:
  - TWO CELLS AT EACH SIDE OF ALL MASONRY WALL OPENINGS:
  - THREE CELLS CENTERED BELOW BEARING POINTS OF FLOOR OR ROOF BEAM:
- MASONRY WALLS SHALL BE CONSTRUCTED AND GROUTED IN 4-FOOT LIFTS MAXIMUM. HIGH LIFT GROUTING, OR MULTI-LIFT GROUTING OF ALL SEGMENTS IS NOT PERMITTED.
- EXTEND VERTICAL REINFORCING IN MASONRY WALLS THROUGH KNOCK OUT BOND BEAM COURSES, UNLESS OTHERWISE NOTED. SEE SCHEDULE ON THIS SHEET FOR BOND BEAM REINFORCING.
- FOR ALL BOND BEAMS, INSTALL ONE CORNER BAR FOR EACH HORIZONTAL BAR. INTERIOR AND EXTERIOR WALL BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGHOUT, EXCEPT AT CONTROL AND EXPANSION JOINTS. THE FOLLOWING SHALL APPLY TO TYPICAL KNOCK-OUT BOND BEAMS.
  - REINFORCING AT ALL BOND BEAMS SHALL BE DISCONTINUOUS AT CONTROL JOINTS AND EXPANSION JOINTS.
  - REINFORCEMENT IN BOND BEAMS AT FLOOR AND ROOF LEVELS SHALL BE CONTINUOUS.
- ALL MASONRY WORK SHALL HAVE A MINIMUM OF 1/2-INCH CLEARANCE TO STEEL CONSTRUCTION.
- SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF CMU CONTRL JOINTS, UNLESS OTHERWISE SHOWN. ISE MASONRY CONTROL JOINTS IN INTERIOR WALLS AT THE FOLLOWING LOCATIONS:
  - DISTANCE BETWEEN JOINTS SHOULD NOT EXCEED THE LESSER OF 1 1/2-LENGTH TO HEIGHT RATION OR 24- FEET.
  - CONTROL JOINTS MUST BE AT LEAST 24-INCHES FROM THE JAMB OF AN OPENING.
- GROUT ALL BEAM AND JOIST POCKETS IN WALLS SOLID AFTER INSTALLING BEAMS AND JOIST, UNLESS NOTED OTHERWISE.
- ANCHORS FOR USE IN CMU SHALL BE SPECIFIED IN THE DRAWINGS OR THE SPECIFICATIONS.
- SEE SHEET S-001 FOR ADHESIVE OR EXPANSION ANCHORS TO BE USED, OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTHS SHALL BE PER THE TABLES PROVIDED ON SHEET S-001. ANCHORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ALL MORTAR JOINTS EXPOSED OR CONCEALED ON CONCRETE MASONRY WALLS SHALL BE TOOLED CONCAVE.
- ELECTRICAL CONDUITS OR PLUMBING LINES SHALL NOT OCCUPY THE SAME CELL OR BOND BEAM COURSE AS REINFORCING STEEL UNLESS APPROVED BY THE ENGINEER.
- ALL VERTICAL REINFORCING STEEL SHALL BE PLACED WITHIN A 1/2-INCH FROM THE CENTER OF WALL AND WITHIN 2-INCHES (+/-) OF THE SPECIFIED SPACING.
- ALL MORTAR DROPPINGS AND MORTAR FINs WITHIN CELLS GREATER THAN 1/2-INCH SHALL BE REMOVED PRIOR TO GROUT PLACEMENT.
- A MINIMUM OF 24 HOURS SHALL ELAPSE BETWEEN THE COMPLETION OF THE LAY-UP OF A WALL SECTION AND THE GROUTING OF THE SECTION.

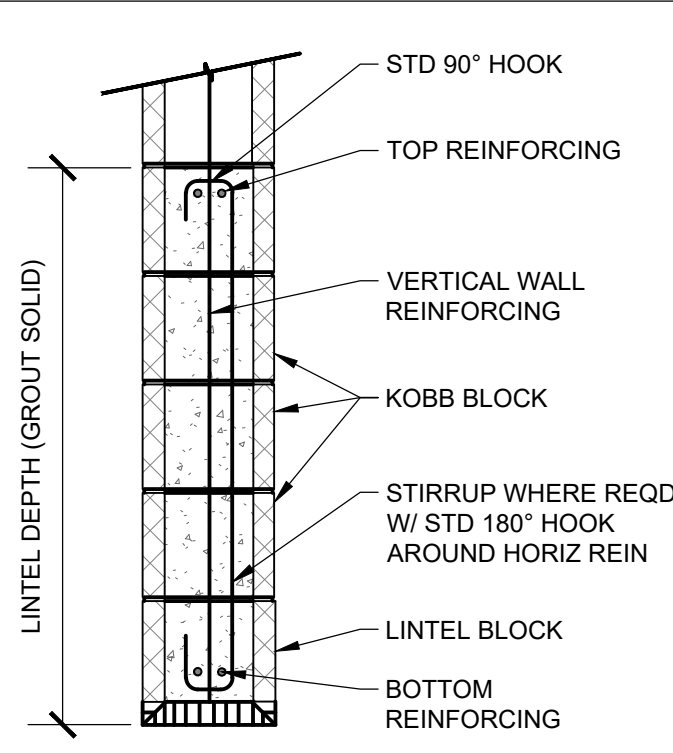
**CMU LINTEL SCHEDULE**

8" (NOMINAL) CMU				12" (NOMINAL) CMU			
OPENING WIDTH	DEPTH	HORIZONTAL BOTTOM REINF.	HORIZONTAL TOP REINF.	OPENING WIDTH	DEPTH	HORIZONTAL BOTTOM REINF.	HORIZONTAL TOP REINF.
3'-4" OR LESS	24"	(1) #6	(1) #6	3'-4" OR LESS	24"	(2) #6	(2) #6
3'-5" TO 6'-1"	32"	(1) #6	(1) #6	3'-5" OR 6'-1"	32"	(2) #6	(2) #6
6'-1" TO 10'-0"	40"	(2) #6	(2) #6	6'-1" TO 10'-0"	40"	(2) #6	(2) #6
10'-0" TO 14'-8"	48"	(2) #6	(2) #6				

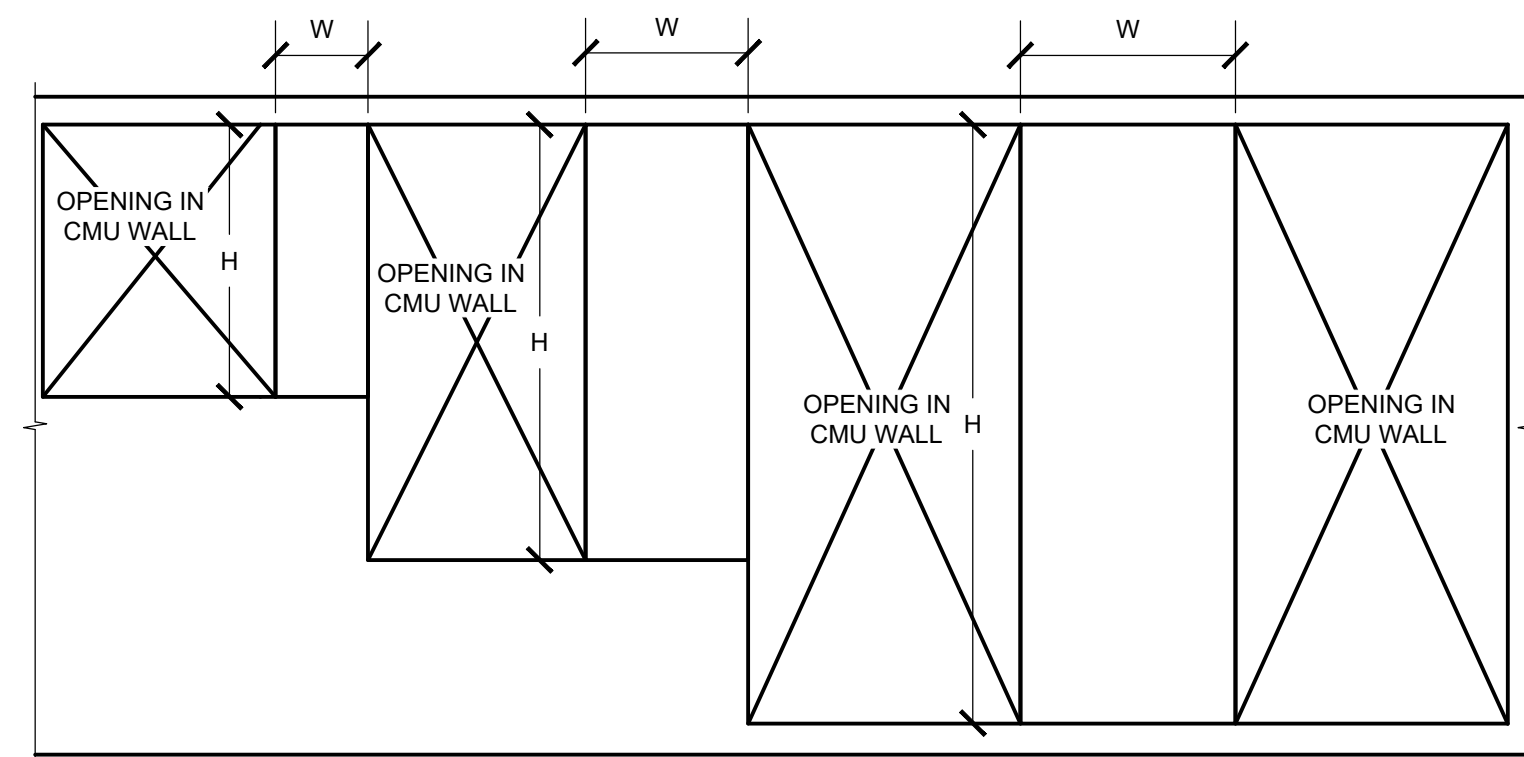
- NOTES:**
- ALL LINTELS SHALL HAVE A 8" MINIMUM BEARING LENGTH BEYOND THE WALL OPENING (SEE DETAIL BELOW).
  - LINTEL AND BEARING LENGTH SHALL BE MONOLITHIC. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AND SHALL EXTEND BEYOND THE MASONRY FOR THE FULL BEARING LENGTH OF THE LINTEL (SEE DETAIL BELOW).
  - CMU CONTROL AND EXPANSION JOINTS SHALL NOT PASS THROUGH THE LINTEL OR THE REQUIRED BEARING LENGTH AT EACH END.



**LINTEL AT PERPENDICULAR WALL**

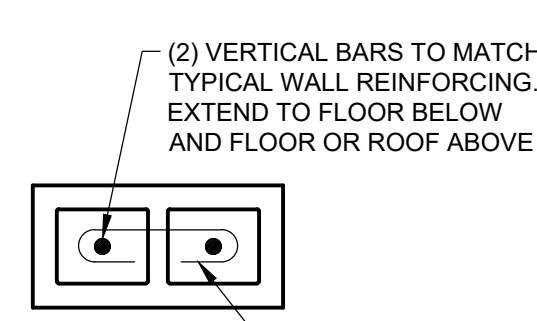
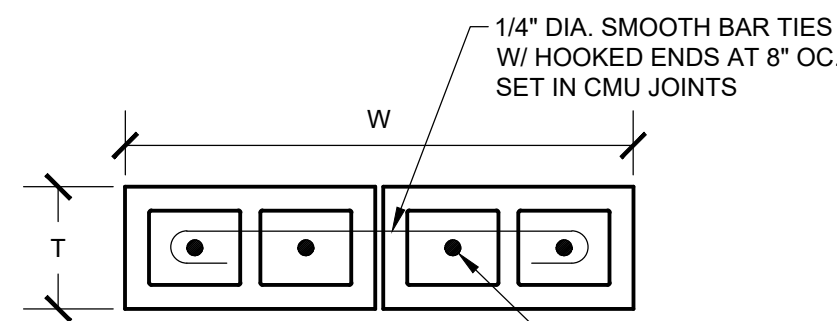


**TYPICAL LINTEL**

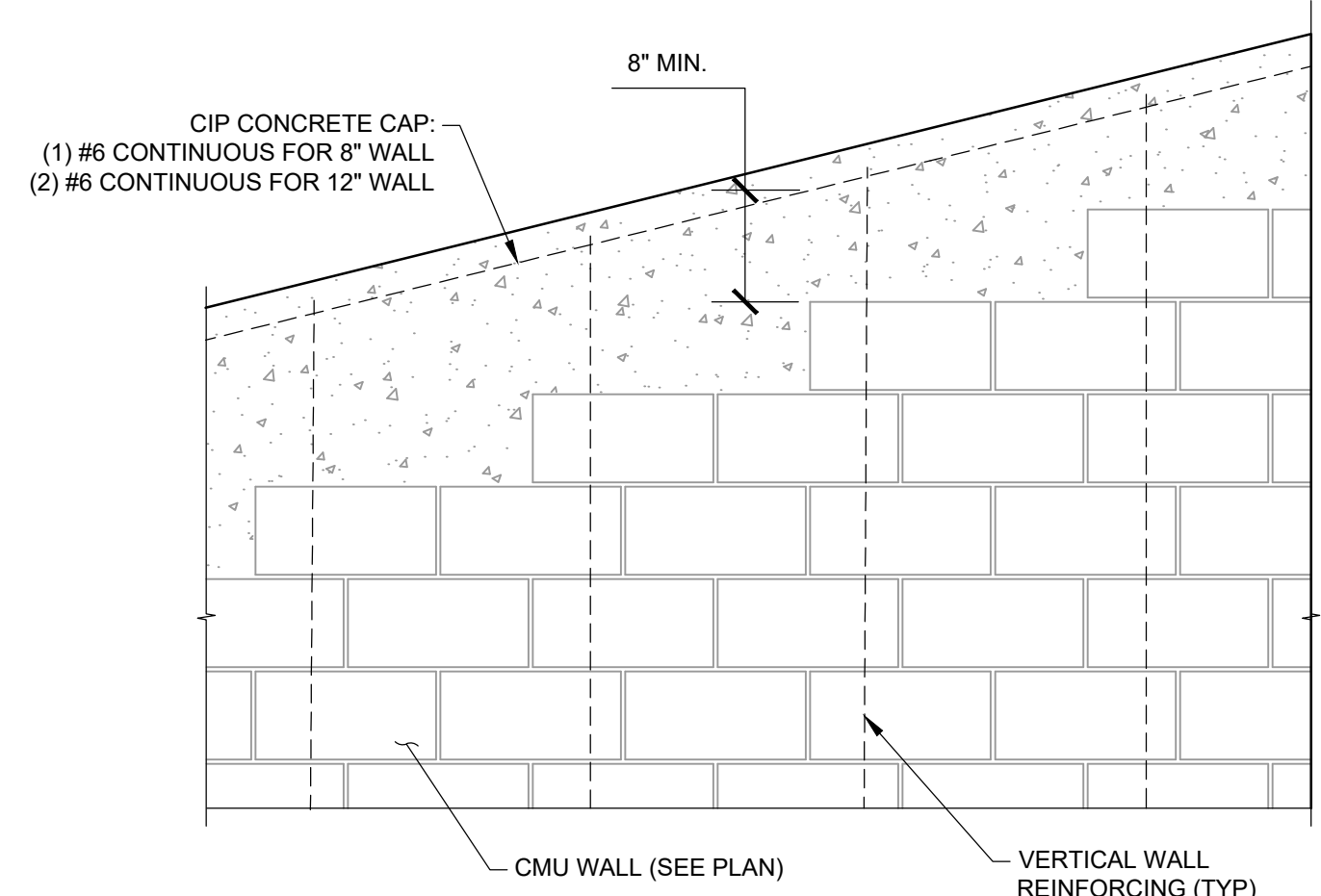


**CMU COLUMN AND PIER SCHEDULE**

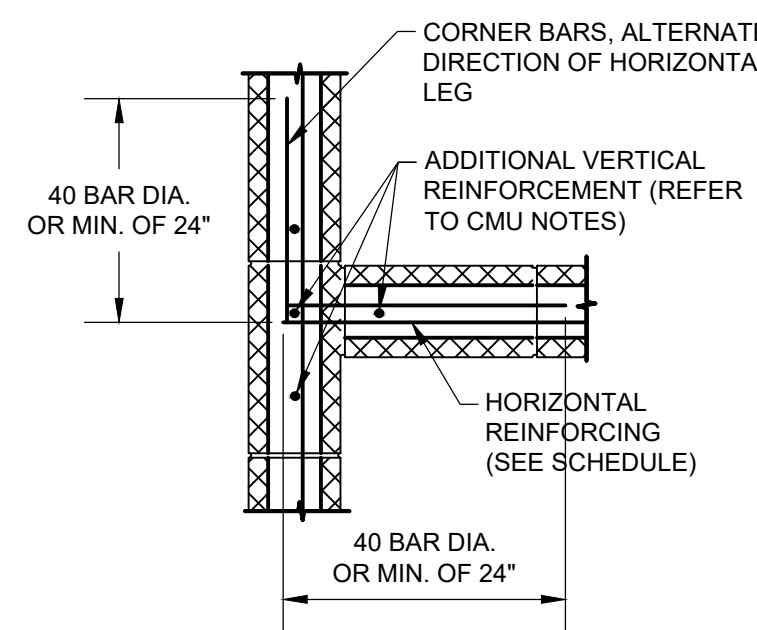
NOMINAL WALL THICKNESS (T)	HEIGHT OF OPENING (H)	USE TYPICAL WALL REINFORCING WHEN:	USE PIER DETAIL WHEN:	USE COLUMN DETAIL WHEN:
8"	H ≥ 24"	W ≥ 40"	24" ≤ W ≤ 40"	W ≤ 24"
12"	H ≥ 32"	W ≥ 64"	40" ≤ W ≤ 64"	W ≤ 40"



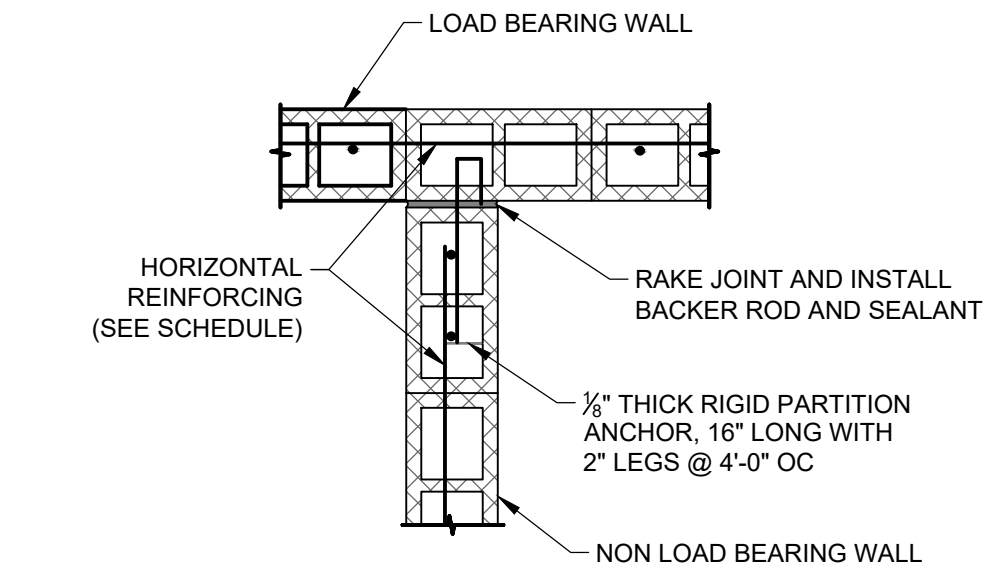
**VERTICAL BARS. EACH CELL TO MATCH TYPICAL WALL REINFORCING. EXTEND TO FLOOR BELOW AND FLOOR OR ROOF ABOVE**



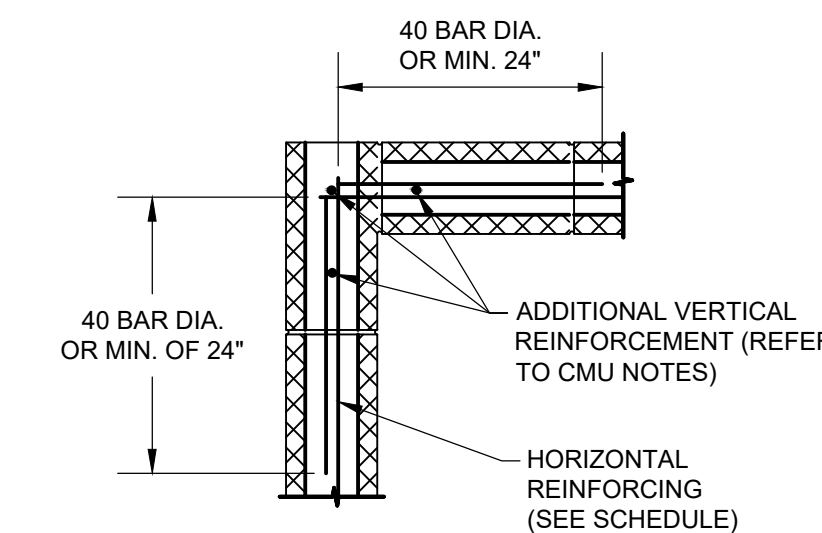
**1 ELEVATION - TOP OF SLOPED MASONRY WALL**  
SCALE: 3/4" = 1'-0"



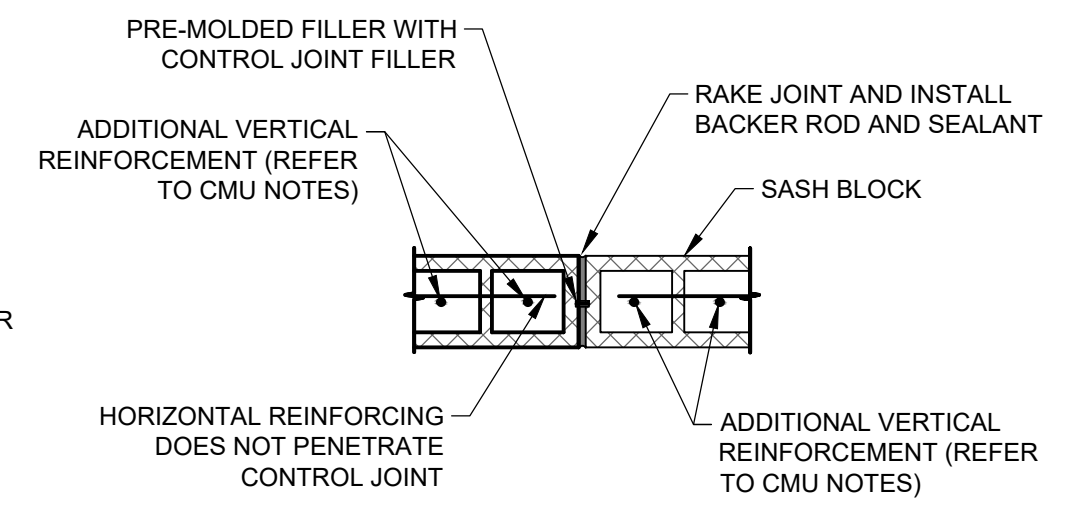
**2 TYPICAL BOND BEAM TEE INTERSECTION**  
SCALE: 3/4" = 1'-0"



**3 TYPICAL LOAD BEARING TO NON LOAD BEARING WALL INTERSECTION**  
SCALE: 3/4" = 1'-0"



**4 TYPICAL BOND BEAM AT CORNER**  
SCALE: 3/4" = 1'-0"



**5 TYPICAL VERTICAL AND HORIZONTAL CONTROL JOINT**  
SCALE: 3/4" = 1'-0"

- BOND BEAM CONTROL JOINT TO ALIGN WITH WALL CONTROL JOINT.
- CONTROL JOINTS SHALL NOT BE LOCATED AT LEAST 24" FROM THE JAMB OF OPENINGS AND SHALL NOT PASS THROUGH LINTEL BEAMS.

CONSULTANTS



**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

PROJECT NAME

DESCRIPTION	DATE	REV.	BY
ISSUED FOR CONSTRUCTION	03/12/26	IFC	MAB

PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR

DATE: 03/12/26

SHEET TITLE

**MASONRY NOTES**

SHEET NO: **S-003**

3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May Drawings\Structural\S002 Concrete Notes.dwg

WOOD CONNECTOR DESIGN CRITERIA

- 1. POWDER DRIVEN FASTENERS SHALL CONFORM TO THE SPECIFICATIONS SECTION 06100 ROUGH CARPENTRY. POWDER AND FASTENERS SHALL NOT CONTAIN LEAD.
2. LAG SCREWS AND WOOD SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
3. BOLTS AND SCREWS SHALL BE TIGHTENED AT THE TIME OF ERECTION AND RE-TIGHTENED BEFORE CLOSING IN, OR AT THE COMPLETION OF THE JOB.
4. BORED LEAD HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32nd" LARGER AND A MAXIMUM OF 1/16th" LARGER THAN BOLT SIZE. OVERSIZED OR SLOTTED HOLES ARE NOT ALLOWED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. NAIL TYPES, INDICATED ON THE PLANS, SHALL MEET THE PROPERTIES AS INDICATED IN THE TABLE INCLUDED ON THIS SHEET. NAILS SHALL BE COMMON WIRE NAILS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. LAG SCREWS SHOULD BE INSERTED IN THE LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. WASHERS OF PROPER SIZE OR METAL PLATE, SHOULD NOT BE INSTALLED BETWEEN THE WOOD AND THE BOLT HEAD.
7. BORED LEAD HOLES FOR LAG SCREWS SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND TO THE DEPTH OF THE UNTHREADED SHANK. SEE THE LEAD HOLE DIAMETER TABLE FOR REFERENCE.
8. BORED LEAD HOLES FOR DRIFT BOLTS AND DRIFT PINS SHALL BE DRILLED A MAXIMUM OF 1/32nd" LARGER OR TO THE ACTUAL PIN DIAMETER.

MANUFACTURED WOOD TRUSSES

- 1. THE TRUSS MANUFACTURER IS RESPONSIBLE TO MEET THE PROFILE, INCLUDING SLOPE, SPAN, DEPTH, AND SPACING, AS INDICATED ON THE DRAWINGS.
2. WOOD TRUSSES CONNECTED WITH METAL PLATE CONNECTION PLATES, SHALL BE DESIGNED, FABRICATED, AND ERECTED TO WITHSTAND THE FOLLOWING, AT A MINIMUM, THE FOLLOWING SUPERIMPOSED UNIFORM SERVICE (UNFACTORED) LOADS:

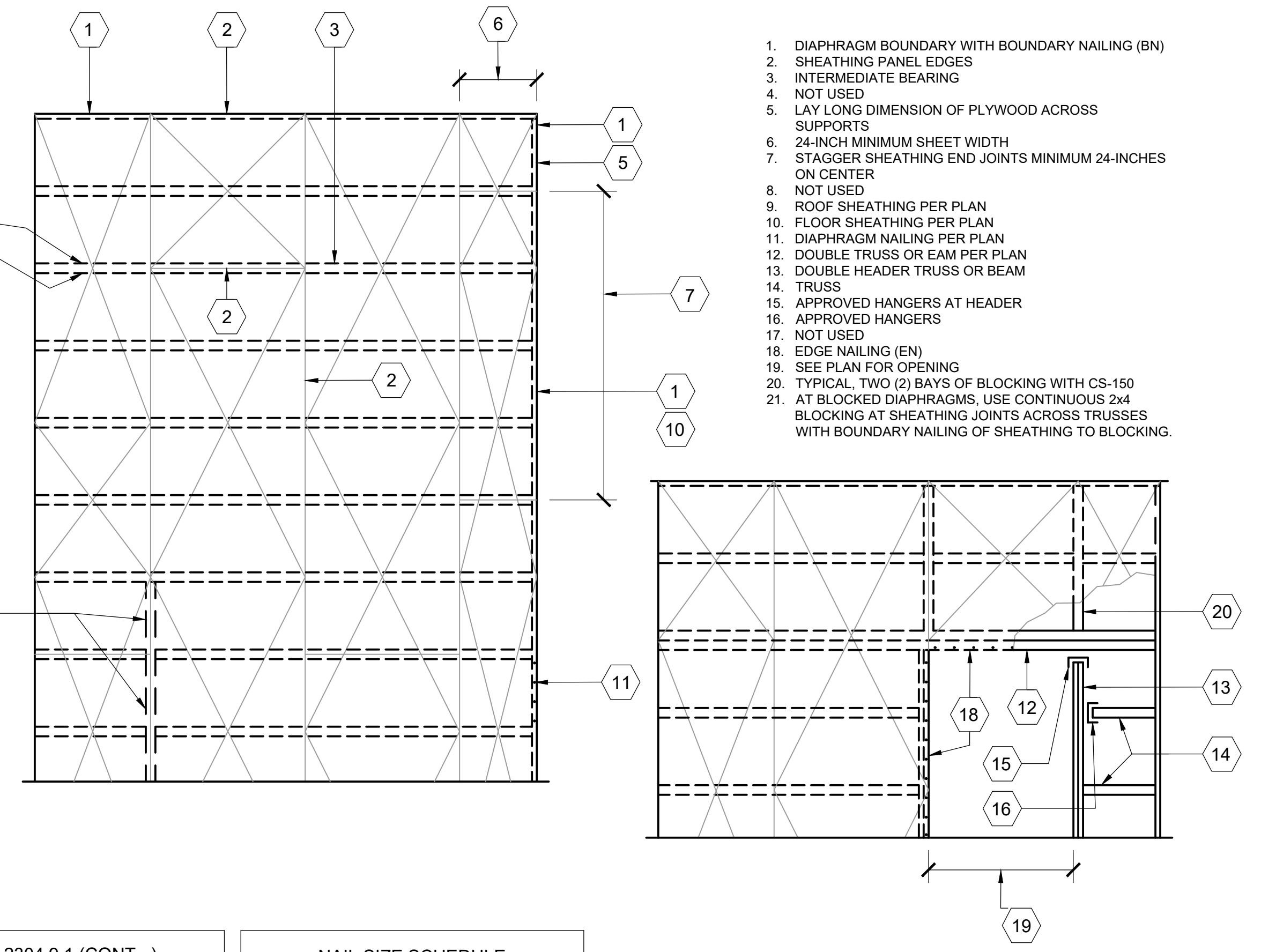
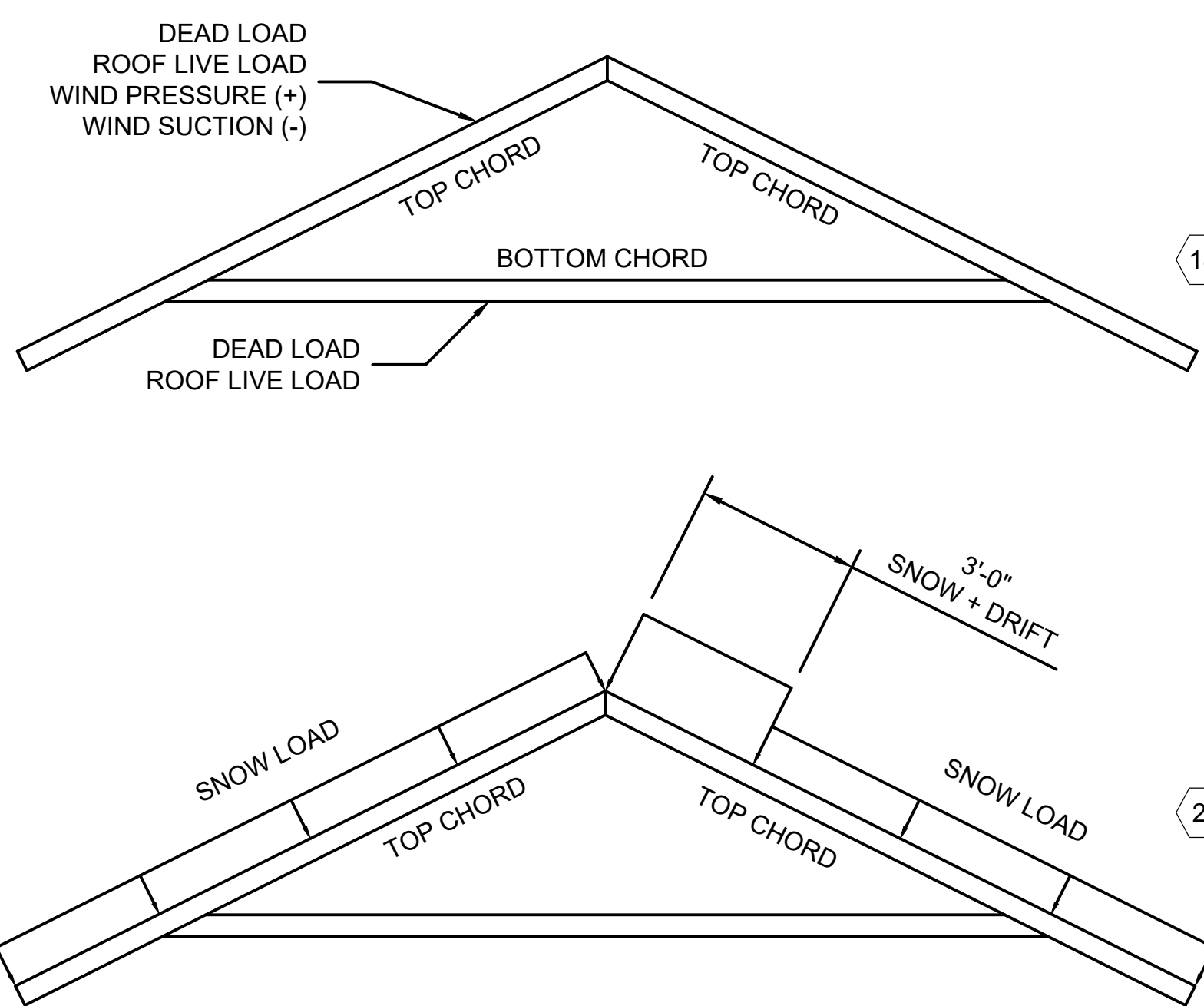
Table with 4 columns: Category (A, B, C, D), Load Type (Roof Dead, Roof Snow, Roof Live, Roof Wind), and Value (PSF). Includes sub-headers for Top Chord and Bottom Chord.

- 3. IN ADDITION TO THE MINIMUM UNIFORM LOADS NOTED ABOVE, THE TRUSSES SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE OF ANY MECHANICAL UNITS AS SHOWN ON THE DRAWINGS.
4. THE CONFIGURATION OF THE TRUSS WEB MEMBERS AS SHOWN IN THE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY. THE TRUSS MANUFACTURER SHALL DESIGN AND CONFIGURE THE WEB MEMBERS AS REQUIRED TO ACHIEVE THE PROPER STRENGTH AND FUNCTION OF EACH TRUSS.
5. A SINGLE, ONE-PART, TRUSS MAY BE SUBSTITUTED FOR A CORRESPONDING TRUSS SHOWN IN THE DRAWINGS, AS MANUFACTURED IN TWO PARTS. IF TWO-PART TRUSSES ARE USED THE MANUFACTURER SHALL PROVIDE COMPLETE INSTALLATION INSTRUCTIONS.
6. CONTRACTOR IS CAUTIONED TO FULLY COORDINATE AND VERIFY THE FABRICATION AND INSTALLATION OF THE ROOF TRUSSES WITH MECHANICAL SYSTEMS TO ENSURE THAT THE MINIMUM EQUIPMENT INSTALLATION OPERATION, AND MAINTENANCE CLEARANCES ARE MAINTAINED AND THAT DUCTWORK DOES NOT INTERFERE WITH THE TRUSS MEMBERS.
7. THE CONTRACTOR SHALL SUBMIT THE TRUSS MANUFACTURER'S CALCULATIONS AND SHOP DRAWINGS TO THE PROJECT ENGINEER FOR APPROVAL. THE MANUFACTURER'S TRUSS SUBMITTAL PACKAGE, WILL BE CHECKED FOR CONFORMANCE WITH DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARINGS), AND LOAD TRANSFER. ONCE SHOP DRAWINGS ARE APPROVED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS TO THE BUILDING OFFICIAL FOR FINAL APPROVAL PRIOR TO FABRICATION AND ERECTION OF THE TRUSSES. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THIS APPROVAL PROCESS.

- 8. TRUSS DRAWINGS, FROM THE MANUFACTURER, SHALL INCLUDE AT A MINIMUM:
A. NUMBER OF PLYS IF GREATER THAN ONE.
B. REQUIRED BEARING WIDTHS.
C. DESIGN LOADS AS STATED ABOVE.
D. ADJUSTMENTS TO WOOD MEMBER AND METAL CONNECTOR PLATE DESIGN VALUE FOR CONDITIONS OF USE.
E. MAXIMUM REACTION FORCE AND DIRECTION, INCLUDING MINIMUM UPLIFT REACTION FORCES.
F. METAL-CONNECTOR-PLATE TYPE, SIZE AND THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.
G. SIZE, SPECIES AND GRADE FOR EACH WOOD MEMBER.
H. TRUSS-TO-TRUSS CONNECTIONS AND TRUSS FIELD ASSEMBLY REQUIREMENTS.
I. MAXIMUM AXIAL TENSION AND COMPRESSION FORCES IN THE TRUSS MEMBERS.
J. REQUIRED PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT LOCATION AND THE METHOD AND DETAILS OF RESTRAINT/BRACING TO BE USED IN ACCORDANCE WITH IBC 2021 SECTION 2303.4.1.2.

- 10. THE TRUSS AND TRUSS CONNECTIONS, DESIGNED AND SPECIFIED BY THE MANUFACTURER, SHALL HAVE ADEQUATE STRENGTH TO RESIST ALL LOADS, THE TRUSSES, AND INDUCED STRESSES, SHALL BE APPROVED PER GUIDELINES SPECIFIED PER THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) OR PER THE INTERNATIONAL CODE COUNCIL (ICC).
11. THE TRUSS MANUFACTURER IS TO PROVIDE DETAILS WHICH ALLOW FOR NORMAL DEFLECTION WITHOUT IMPOSITION OF THE LATERAL LOADS ON THEIR SUPPORTS (I.E. SCISSOR TRUSSES).
12. DEAD AND LIVE LOAD COMBINED DEFLECTIONS SHALL BE LIMITED TO L/180. LIVE LOAD DEFLECTION SHALL BE LIMITED TO L/240 PER IBC 2021, TABLE 2304.8(3), UNLESS NOTED OTHERWISE.
13. CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED BY THE TRUSS MANUFACTURER AS REQUIRED TO ADEQUATELY BRACE ALL TRUSSES.
14. TRUSSES SHALL BE DESIGNED TO SUSTAIN ALL VERTICAL, LATERAL, AND OTHER PERTINENT LOADS, INCLUDING BRACING OF TOP AND BOTTOM CHORDS AND ALL RELATED TRUSS CONNECTIONS. THE CONTRACTOR SHALL COORDINATE THE ENGINEERS DESIGN LOADING AND REQUIREMENTS TO THE TRUSS MANUFACTURER.
15. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR PROVIDING ADDITIONAL SHEAR AND DRAG LOADS ON THE TRUSSES AS SHOWN ON THE FRAMING PLANS.
16. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR REVIEWING THE FRAMING PLANS AND STRUCTURAL DETAILS PRIOR TO FABRICATION OF THE TRUSSES AND SPECIFYING TRUSS HANGERS.
17. MULTIPLE-PLY TRUSSES SHALL BE SECURED TOGETHER TO ACT AS A SINGLE UNIT.
18. TRUSS MEMBERS ARE NOT TO BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED.
19. POSTS SUPPORTING GIRDER TRUSSES SHALL BE (2) 2X STUDS (MINIMUM) UNLESS OTHERWISE NOTED ON THE DRAWINGS EITHER PROVIDED OR REVIEWED BY THE PROJECT ENGINEER.

- 20. METAL FRAMING ANCHORS:
A. METAL FRAMING ANCHORS SHOWN ON DRAWINGS REFER TO CATALOGUE NUMBERS OF ANCHORS BY SIMPSON STRONG-TIE CO., INC. USE THESE ANCHORS OR APPROVED EQUAL ANCHORS WITH EQUAL OR GREATER LOAD CAPACITIES.
B. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. FASTEN ANCHORS PER THE SCHEDULE INCLUDED ON THIS SHEET, UNLESS OTHERWISE NOTED.
D. SIMPSON STRONG-TIE FASTENERS SHALL BE CONSTRUCTED WITH TITEN SCREWS, TITEN HD SCREWS, AND SDS (STRONG DRIVE SCREWS) WHERE NOTED.
E. LOCATE TITEN SCREWS A MINIMUM OF 1 1/2-INCHES FROM ALL EDGES OF MASONRY. LOCATE HD SCREWS A MINIMUM OF 4-INCHES FROM ALL EDGES OF MASONRY.



- 1. DIAPHRAGM BOUNDARY WITH BOUNDARY NAILING (BN)
2. SHEATHING PANEL EDGES
3. INTERMEDIATE BEARING
4. NOT USED
5. LAY LONG DIMENSION OF PLYWOOD ACROSS SUPPORTS
6. 24-INCH MINIMUM SHEET WIDTH
7. STAGGER SHEATHING END JOINTS MINIMUM 24-INCHES ON CENTER
8. NOT USED
9. ROOF SHEATHING PER PLAN
10. FLOOR SHEATHING PER PLAN
11. DIAPHRAGM NAILING PER PLAN
12. DOUBLE TRUSS OR EAM PER PLAN
13. DOUBLE HEADER TRUSS OR BEAM
14. TRUSS
15. APPROVED HANGERS AT HEADER
16. APPROVED HANGERS
17. NOT USED
18. EDGE NAILING (EN)
19. SEE PLAN FOR OPENING
20. TYPICAL TWO (2) BAYS OF BLOCKING WITH CS-150
21. AT BLOCKED DIAPHRAGMS, USE CONTINUOUS 2x4 BLOCKING AT SHEATHING JOINTS ACROSS TRUSSES WITH BOUNDARY NAILING OF SHEATHING TO BLOCKING.

FASTENING SCHEDULE - TABLE 2304.9.1

Table with 3 columns: Building Element Description, Fastening, and Location. Lists various fastening requirements for blocking, joists, rafters, and headers.

FASTENING SCHEDULE - TABLE 2304.9.1 (CONT...)

Table with 3 columns: Building Element Description, Fastening, and Location. Continues fastening requirements for headers, studs, top plates, and sheathing.

NAIL SIZE SCHEDULE

Table with 3 columns: Nail Type, Properties (Pennyweight, Nail Shank Diameter, Length), and Common Wire. Lists nail specifications for various applications.

\* FASTENING NAILS AND STAPLES TO CONFORM TO THE REQUIREMENTS OF ASTM F1667 AND IBC 2021 2303.6 NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL COMPLY WITH THE FOLLOWING:
SHANK DIAMETERS: MIN. STRENGTH:
0.095" < Ø < 0.142" f\_u = 100 KSI
0.142" < Ø < 0.177" f\_u = 90 KSI
0.177" < Ø < 0.254" f\_u = 80 KSI
f\_u = MINIMUM BENDING YIELD STRENGTH

METAL FRAMING ANCHORS

Table with 4 columns: Anchor, Fasten to Wood Member, Fasten to Steel Member, and Fasten to CMU. Lists anchor specifications for different materials.

LEAD HOLE DIAMETERS FOR LAG SCREWS

Table with 3 columns: Nominal Diameter of Lag Bolt (in), Shank - Unthreaded Portion (in), and Threaded Portion (in). Lists lead hole diameters for various lag bolt sizes.

\* BORED HOLE DIAMETERS BASED ON WOOD SPECIES AND SPECIFIC GRAVITY (G). DIAMETERS LISTED ARE FOR DOUGLAS FIR/LARCH. CONTACT ENGINEER FOR OTHER WOOD SPECIES.

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Professional Engineer seal for Will B. Ross, New Mexico, No. 25648, dated 03/12/26.

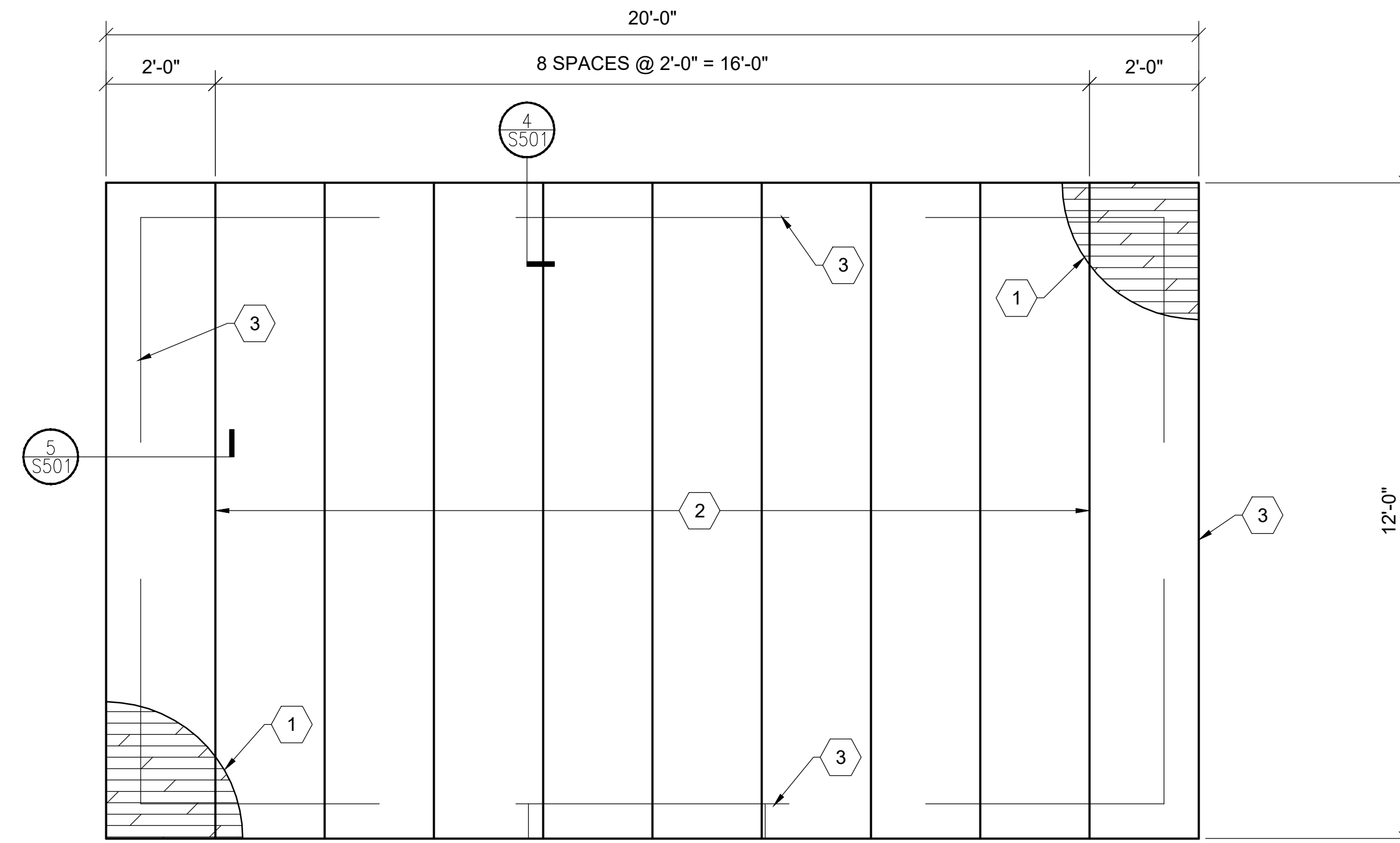
PROJECT NAME: LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

Revision table with columns: No., Description, Date, Issued For Construction, MAB, BY.

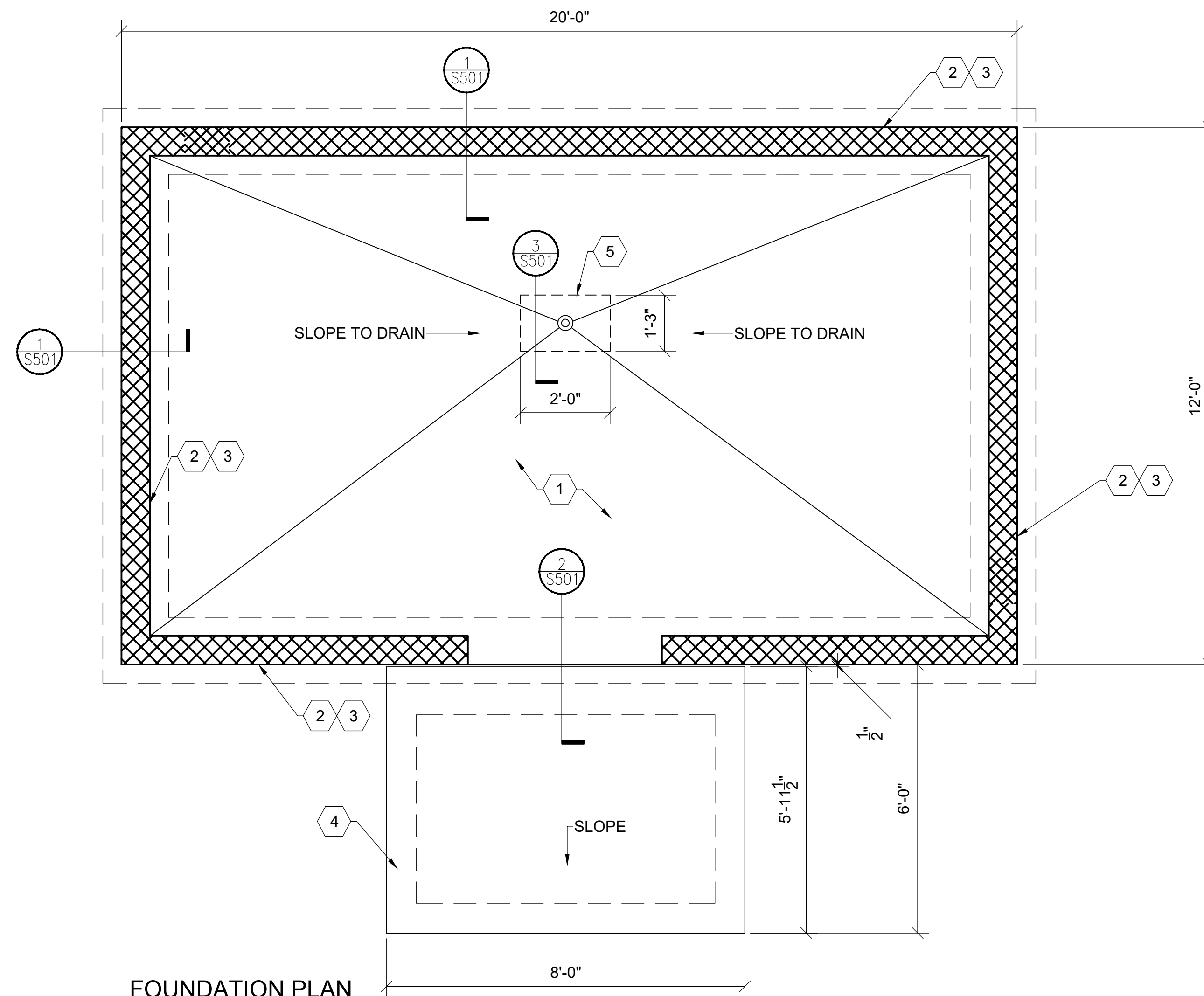
PROJECT NO: 20-600-894-03
DESIGNED BY: MAB
DRAWN BY: MAB
CHECKED BY: WBR
DATE:

SHEET TITLE: TYPICAL WOOD NOTES AND DETAILS
SHEET NO: S-004

3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S101 FOUNDATION & FRAMING PLAN 24021.dwg



**ROOF FRAMING PLAN**  
SCALE:  $\frac{1}{2}" = 1'-0"$



**FOUNDATION PLAN**  
SCALE:  $\frac{1}{2}" = 1'-0"$

**GENERAL SHEET NOTES**

1. TOP OF SLAB REFERENCE ELEVATION = 100'-0" UNO. SEE CIVIL FOR MEAN SEA LEVEL ELEVATIONS
2. BOTTOM OF FOOTING ELEVATION = 97'-0".
3. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.
4. SEE S002 FOR CONTROL JOINT SPACING MINIMUM REQUIREMENTS.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
6. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

**ROOF FRAMING KEYNOTES**

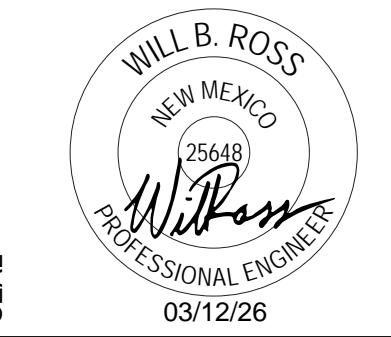
1. SHEATHING:  $\frac{19}{32}"$  PLYWOOD SHEATHING, BLOCKED, WITH 10d @ 6" OC BOUNDARIES AND EDGES, 10d @ 12" OC FIELD.
2. FRAMING: PRE-ENGINEERED WOOD TRUSSES @ 24" OC.
3. WALL: 8" CMU WALL BELOW.

**FOUNDATION KEYNOTES**

1. SLAB: 6" CONCRETE SLAB ON GRADE WITH #4 @ 18" OC EACH WAY.
2. FOOTING: 1'-6" WIDE x 1'-0" THICK CONTINUOUS FOOTING WITH 2-#4 CONTINUOUS AND #4 @ 18" OC TRANSVERSE.
3. WALL: 8" CMU WALL, SOLID GROUTED, WITH #4 @ 32" OC VERTICAL AND HORIZONTAL.
4. SLAB: 4" CONCRETE SLAB ON GRADE WITH #4 @ 18" OC EACH WAY AND 8" WIDE CONTINUOUS TURN DOWN FOOTING WITH 1-#4 CONTINUOUS.
5. DRAIN: REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

PROJECT NAME

REV.	DATE	ISSUED FOR CONSTRUCTION	MAB	BY
IFC	03/12/26			

PROJECT NO: 20-600-894-03

DESIGNED BY: MAB

DRAWN BY: MAB

CHECKED BY: WBR

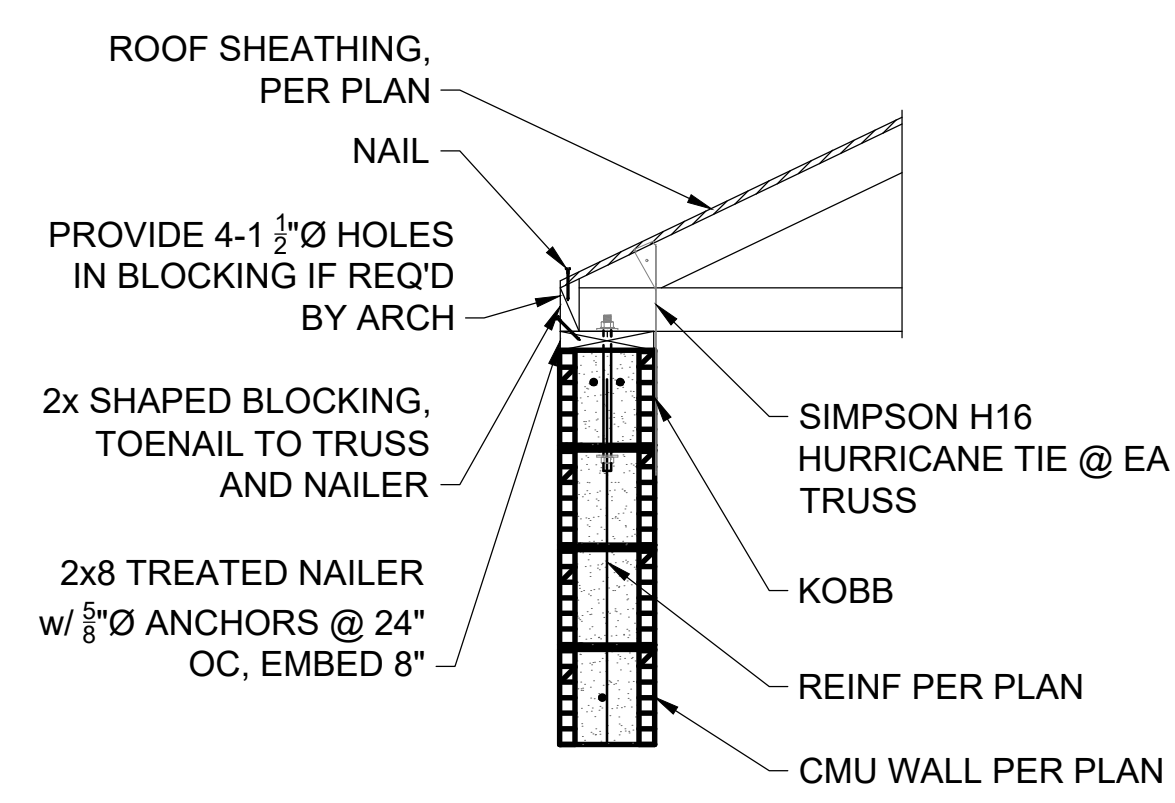
DATE:

SHEET TITLE  
**FOUNDATION  
& ROOF  
FRAMING  
PLAN**

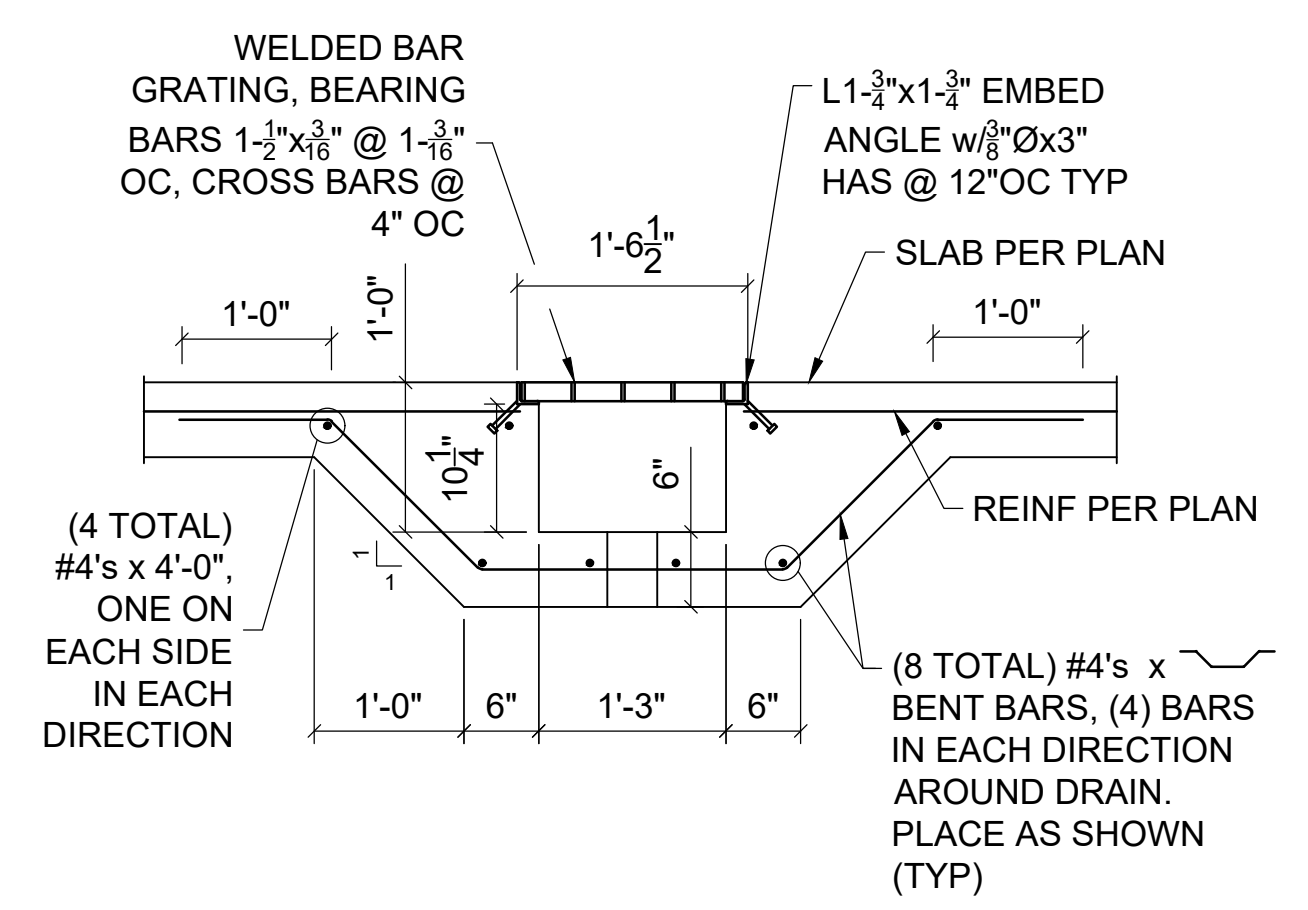
SHEET NO:

**S-101**

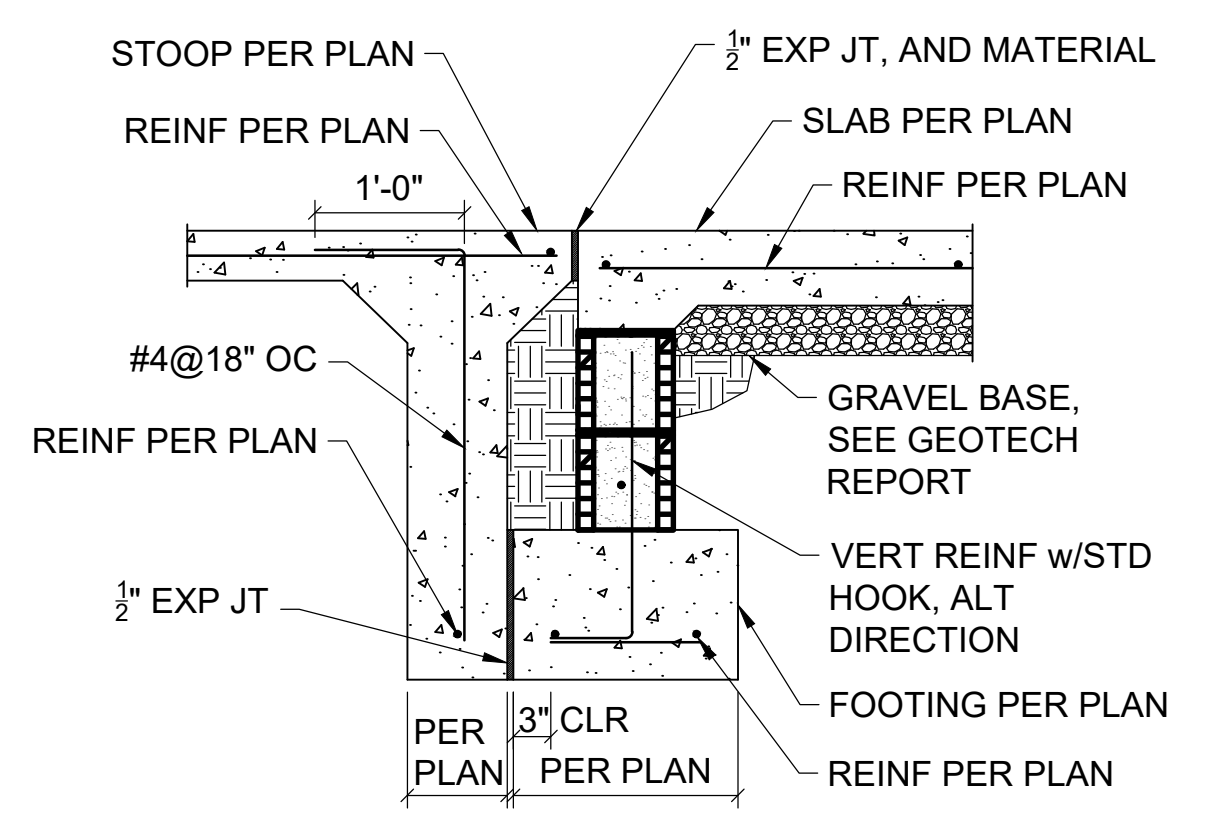
3/11/2026 M:\MSD\_Library\01 Structural Engineering - Buildings\Projects\2024\24021 Camp May\Drawings\Structural\S501 Foundation Details Camp May.dwg



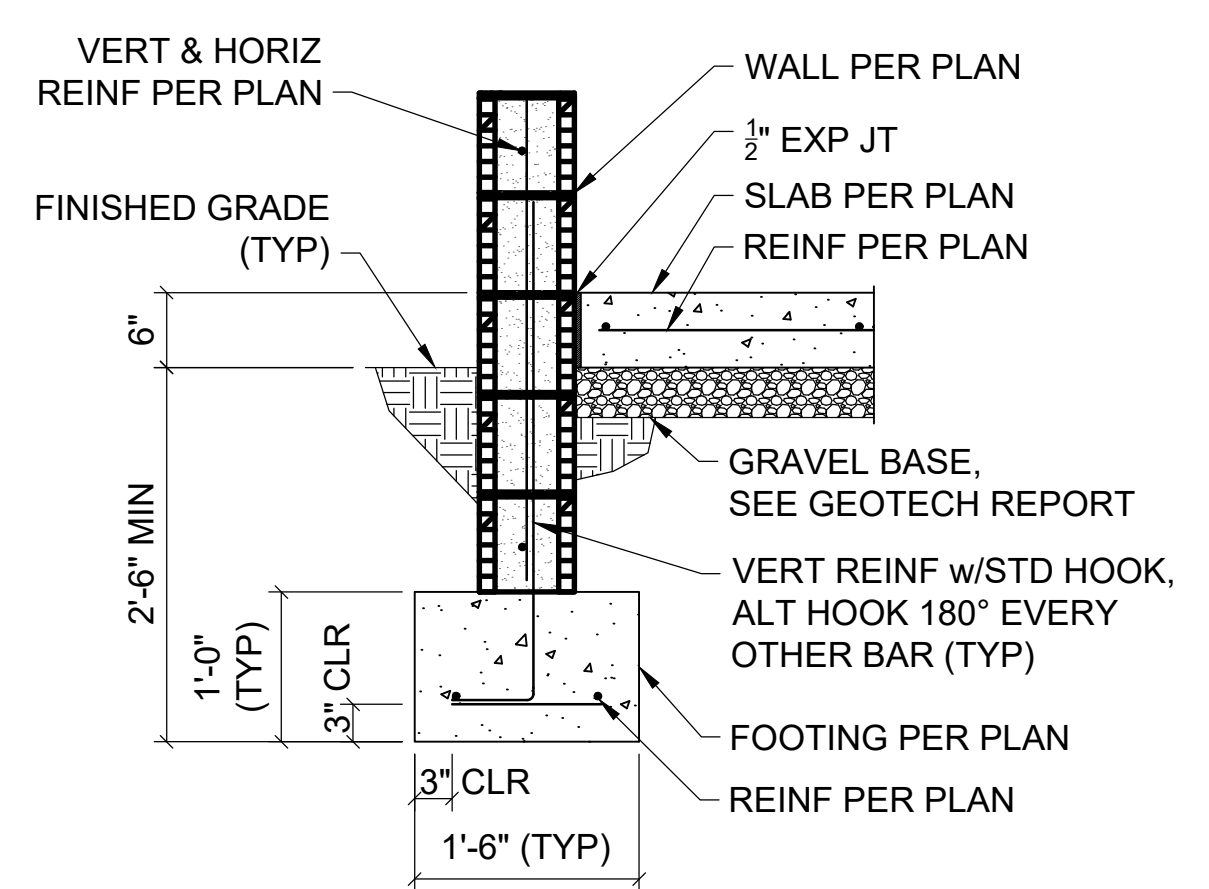
**4** TRUSSES PERPENDICULAR TO WALL  
S501 SCALE:  $\frac{3}{4}''=1'-0''$



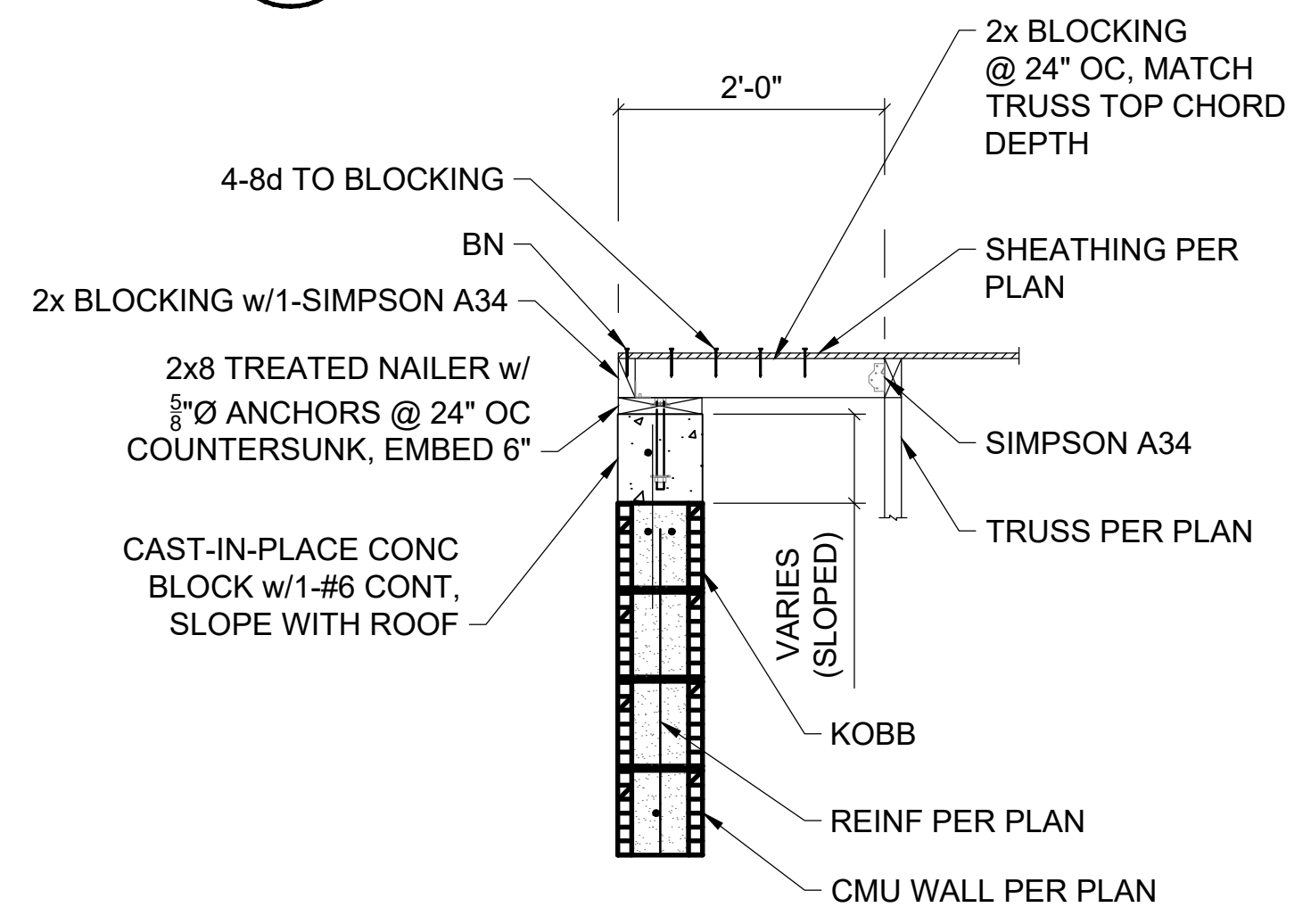
**3** GRATE TRENCH  
S501 SCALE:  $\frac{3}{4}''=1'-0''$



**2** TYP PERIMETER FOOTING AT OPENING  
S501 SCALE:  $\frac{3}{4}''=1'-0''$



**1** TYP PERIMETER FOOTING  
S501 SCALE:  $\frac{3}{4}''=1'-0''$



**5** TRUSS PARALLEL TO END WALL  
S501 SCALE:  $\frac{3}{4}''=1'-0''$

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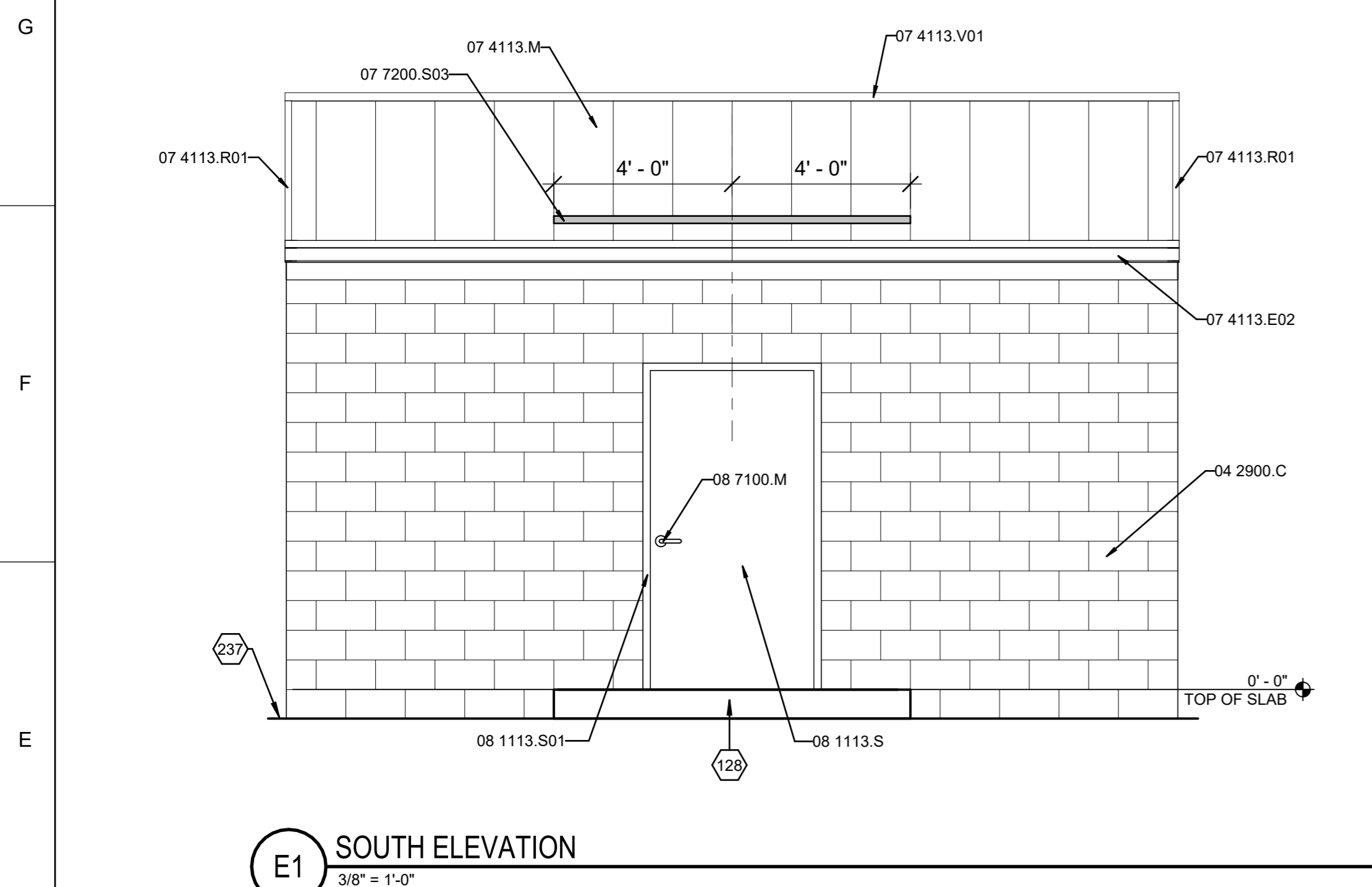
PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY
IFC	03/12/26	ISSUED FOR CONSTRUCTION	MAB

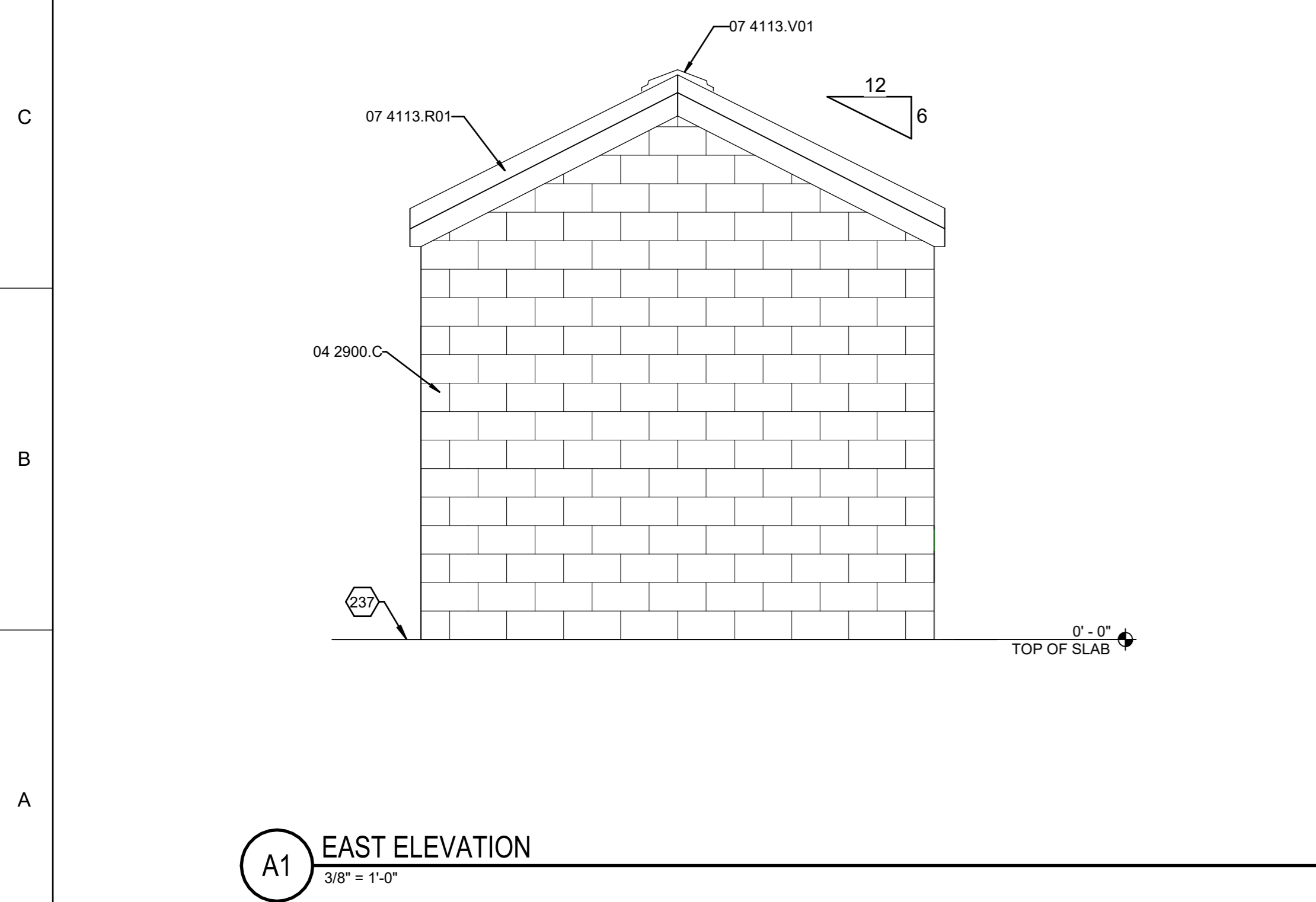
PROJECT NO: 20-600-894-03  
DESIGNED BY: MAB  
DRAWN BY: MAB  
CHECKED BY: WBR

DATE:  
SHEET TITLE  
**FOUNDATION  
AND ROOF  
FRAMING  
DETAILS**

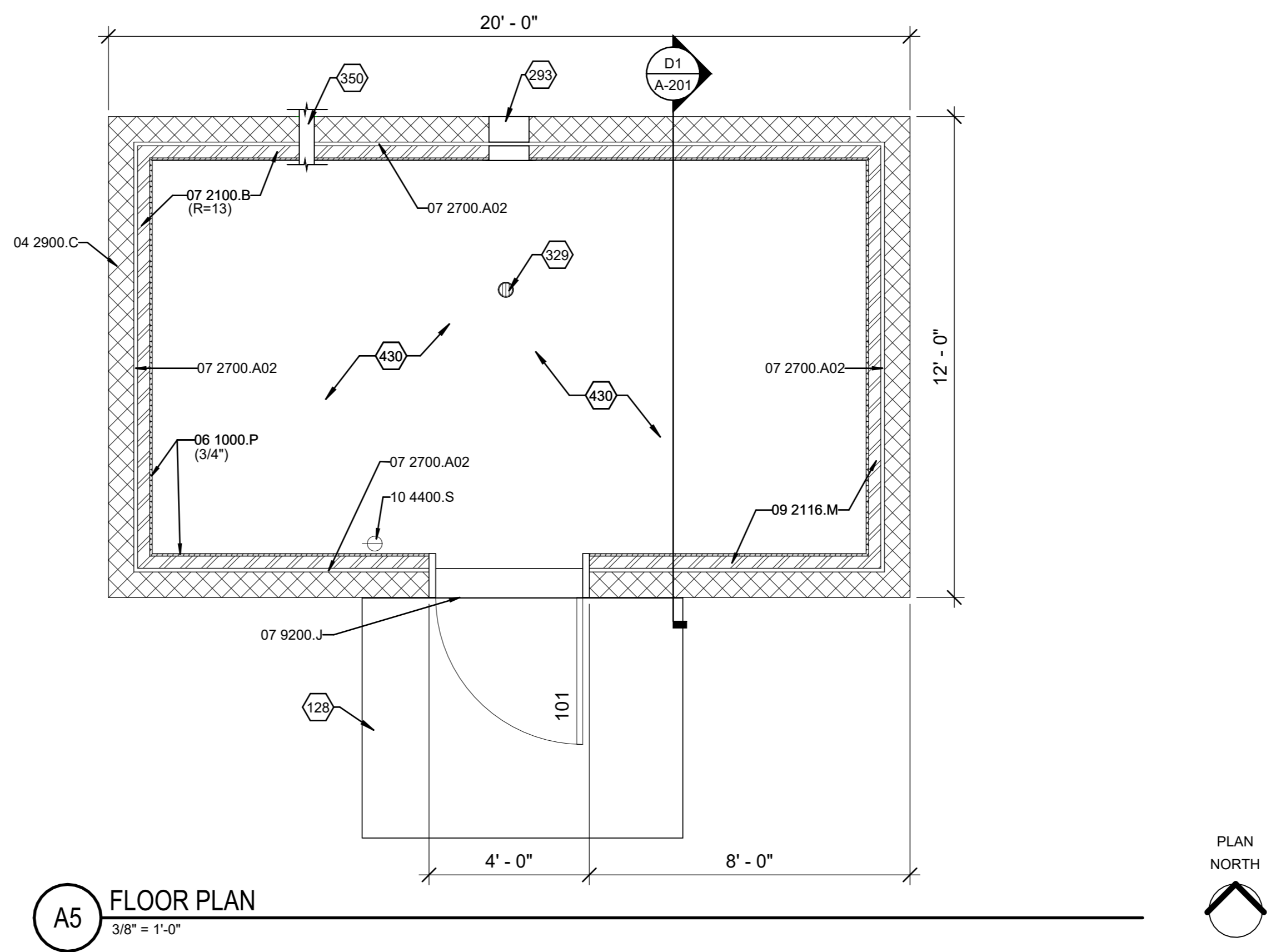
SHEET NO:  
**S-501**



**E1 SOUTH ELEVATION**  
3/8" = 1'-0"



**A1 EAST ELEVATION**  
3/8" = 1'-0"



**A5 FLOOR PLAN**  
3/8" = 1'-0"



**REGULATORY INFORMATION**

**1. GENERAL:**  
PROJECT ADDRESS: JEMEZ MOUNTAIN ROAD, LOS ALAMOS COUNTY NEW MEXICO

**GOVERNING REGULATIONS:**  
2021 NM COMMERCIAL BUILDING CODE (2021 IBC, AS AMENDED)  
2021 NM COMMERCIAL ENERGY CONSERVATION CODE (2021 IECC AS AMENDED)  
2021 NM PLUMBING CODE CODE (2021 UPC, AS AMENDED)  
2021 NM MECHANICAL CODE (2021 UMC, AS AMENDED)  
2021 NM ELECTRICAL CODE (2021 NEC, AS AMENDED)  
2021 INTERNATIONAL FIRE CODE

**2. SITE:** REFER TO CIVIL SITE PLANS

**3. BUILDING:**  
OCCUPANCY GROUP: UTILITY AND MISCELLANEOUS GROUP U (SECTION 312.1 IBC)  
CONSTRUCTION TYPE: VB (TABLES 601 AND 602, AND SECTION 602.5, IBC)  
BUILDING AREA:  
ALLOWABLE AREA: 5,500 SF (TABLE 506.2, IBC)  
ACTUAL BUILDING AREA: 240 SF  
BUILDING HEIGHT: (IN FEET ABOVE GRADE PLANE)  
ALLOWABLE NUMBER OF STORIES: 3 STORIES  
ACTUAL NUMBER OF STORIES: 1 STORY

**4. LIFE SAFETY - EGRESS**  
MAXIMUM OCCUPANT LOAD FOR SPACES WITH ONE EXIT  
ACCESS DOORWAY:  
ALLOWABLE OCCUPANT LOAD 29 OCCUPANTS (TABLE 1006.2.1, IBC)  
ACTUAL OCCUPANT LOAD: NOT OCCUPIED (1/300, TABLE 1004.5, IBC)  
EXITS REQUIRED: 1 EXIT (TABLE 1006.3.3(2), IBC)  
EXITS PROVIDED: 1  
MAXIMUM COMMON PATH OF EGRESS TRAVEL  
ALLOWABLE TRAVEL DISTANCE: 100 FEET (TABLE 1006.2.1, IBC)  
ACTUAL TRAVEL DISTANCE: 20 FEET

**5. FIRE PROTECTION: PASSIVE FIRE EXTINGUISHER PROVIDED.**  
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: X > 30 FEET, 0 HOURS (TABLE 602 IBC)  
MINIMUM ROOF COVERING CLASSIFICATION: CLASS C (TABLE 1505.1, IBC)

**6. ACCESSIBILITY:** EXEMPT, UTILITY BUILDING (SECTION 1103.2.4, IBC)

**7. ENERGY:** BUILDING THERMAL ENVELOPE EXEMPT (SECTION C402.1.2, IECC)  
CLIMATE ZONE: 5B; LOS ALAMOS COUNTY, NM

**8. STRUCTURAL:** REFER TO STRUCTURAL DRAWINGS

**9. ELECTRICAL:** REFER TO ELECTRICAL DRAWINGS

**GENERAL SHEET NOTES**

- REFER TO BOOSTER PUMP PLANS FOR PIPE PENETRATION LOCATIONS AND SIZES.
- BOOSTER EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO BOOSTER PUMP PLANS FOR BOOSTER PUMP EQUIPMENT LOCATIONS.
- ELECTRICAL EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS FOR POWER PANELS AND LIGHT FIXTURE LOCATIONS.
- SEE BOOSTER EQUIPMENT PLANS FOR SIZE AND LOCATIONS OF PIPING PENETRATIONS AT EXTERIOR WALLS. SEAL PENETRATIONS WITH SEALANT.

**REFERENCE KEYNOTES**

REFERENCE SPECIFICATION SECTION	KEYNOTE
04 2900.C	CONCRETE MASONRY UNITS
06 1000.P	PLYWOOD
07 2100.B	BLANKET INSULATION
07 2700.A02	AIR BARRIER, FLUID-APPLIED
07 4113.E02	EAVE TRIM
07 4113.M	METAL ROOF PANEL(S)
07 4113.R01	RAKE TRIM
07 4113.V01	VENTILATING RIDGE CAP
07 7200.S03	SNOW GUARD
07 9200.J	JOINT SEALANT
08 1113.S	STEEL DOOR
08 1113.S01	STEEL FRAME
08 7100.M	MORTISE LOCK
09 2116.M	METAL STUD
10 4400.S	SURFACE MOUNTED FIRE EXTINGUISHER

**SHEET KEYNOTES**

128	CONCRETE PAVING - REFER TO CIVIL PLANS.
237	FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
293	MECHANICAL LOUVER.
329	PLUMBING FLOOR DRAIN.
350	PROCESS PIPING.
430	SLOPE SLAB TO FLOOR DRAIN - SEE STRUCTURAL FOUNDATION PLAN.



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PROJECT NAME:  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHSE 3**

MARK	DATE	DESCRIPTION

PROJECT NO:  
20-600-894-03  
DRAWN BY TP  
CHECKED BY CRG  
SHEET TITLE  
**FLOOR PLAN & ELEVATIONS**

**A-101**  
SHEET \_\_\_ OF \_\_\_

GENERAL SHEET NOTES

1. FINISH FLOOR ELEVATIONS INDICATED ARE BASED ON AN ELEVATION OF 100'-0" - REFER TO CIVIL GRADING AND DRAINAGE PLAN FOR CONTROL DATUM AND BENCHMARK INFORMATION.
2. REFER TO STRUCTURAL FOUNDATION PLAN FOR CONCRETE AND MASONRY REINFORCING.

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 410 N. 44th Street, Suite 460  
 Phoenix, AZ 85008  
 Phone: (602) 283-2701

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REFERENCE SPECIFICATION SECTION  
 XX XXXX.XX

REFERENCE KEYNOTES

- 04 2900.C CONCRETE MASONRY UNITS
- 06 1000.P PLYWOOD
- 07 2100.B BLANKET INSULATION
- 07 2100.B01 BOARD INSULATION
- 07 2100.R01 RAFTER VENT
- 07 2600.U UNDERSLAB VAPOR RETARDER
- 07 2700.A02 AIR BARRIER, FLUID-APPLIED
- 07 4113.E02 EAVE TRIM
- 07 4113.M METAL ROOF PANEL(S)
- 07 4113.R01 RAKE TRIM
- 07 4113.V01 VENTILATING RIDGE CAP
- 07 9200.J JOINT SEALANT



PROJECT NAME:  
 LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHSE 3

SHEET KEYNOTES

- 113 CAST-IN-PLACE CONCRETE SLAB.
- 237 FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
- 293 MECHANICAL LOUVER.
- 350 PROCESS PIPING.
- 357 ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
- 401 STRUCTURAL FRAMING MEMBER(S).
- 430 SLOPE SLAB TO FLOOR DRAIN - SEE STRUCTURAL FOUNDATION PLAN.
- 525 TERMINATE ROOF DECK, UNDERLAYMENT, AND ROOF PANELS 5 INCHES FROM RIDGE

MARK	DATE	DESCRIPTION

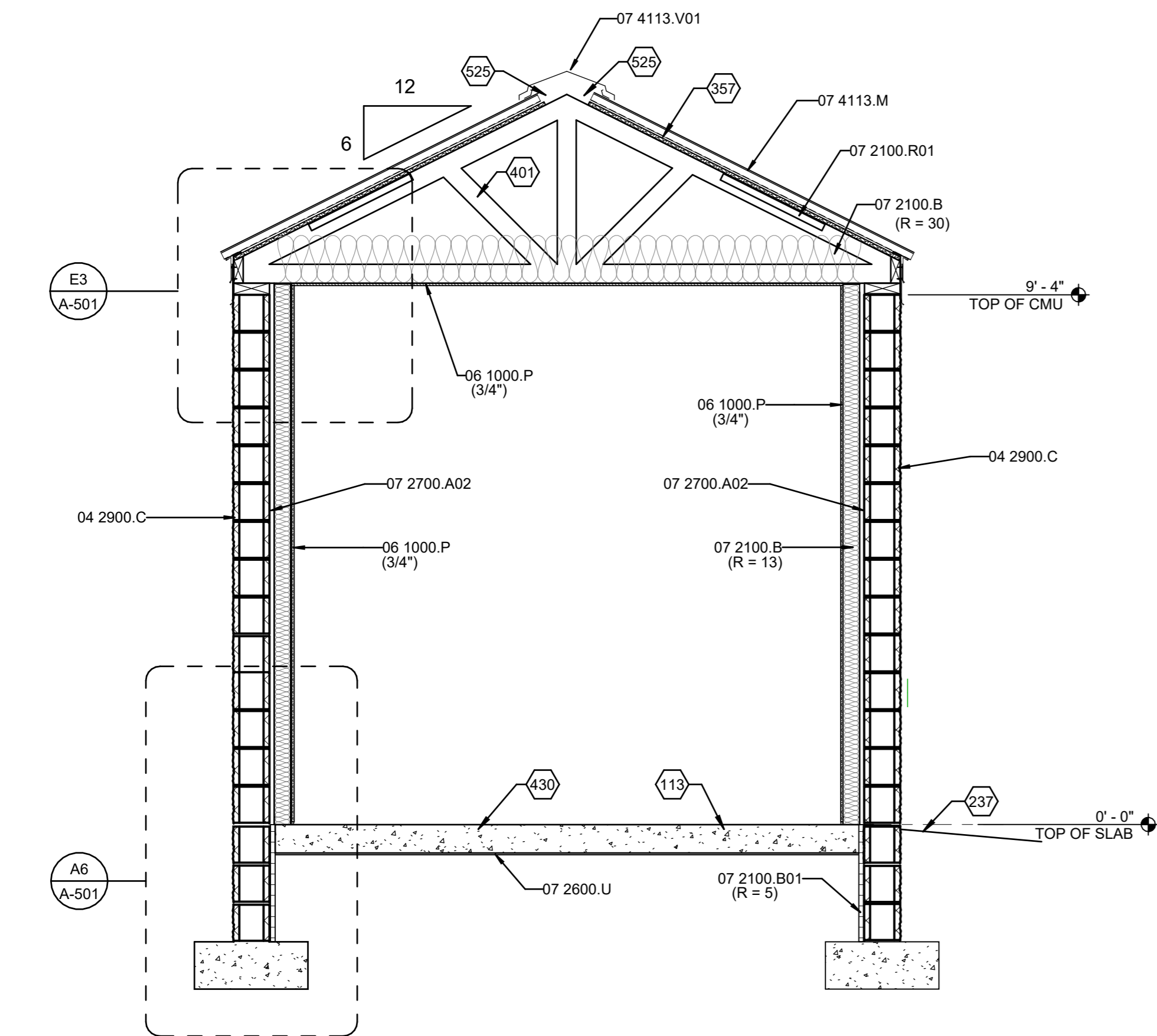
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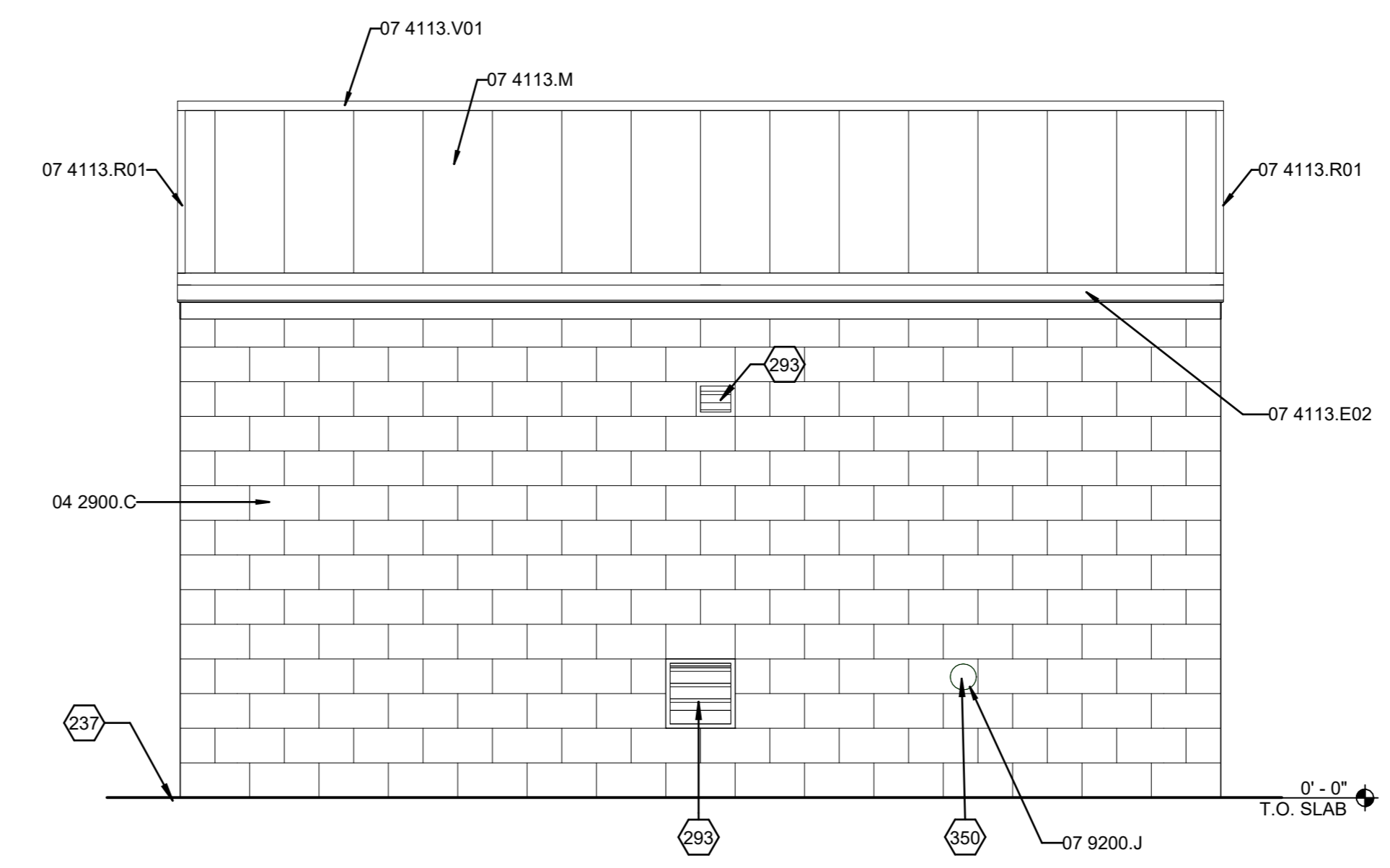
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SHEET TITLE  
 EXTERIOR  
 ELEVATIONS

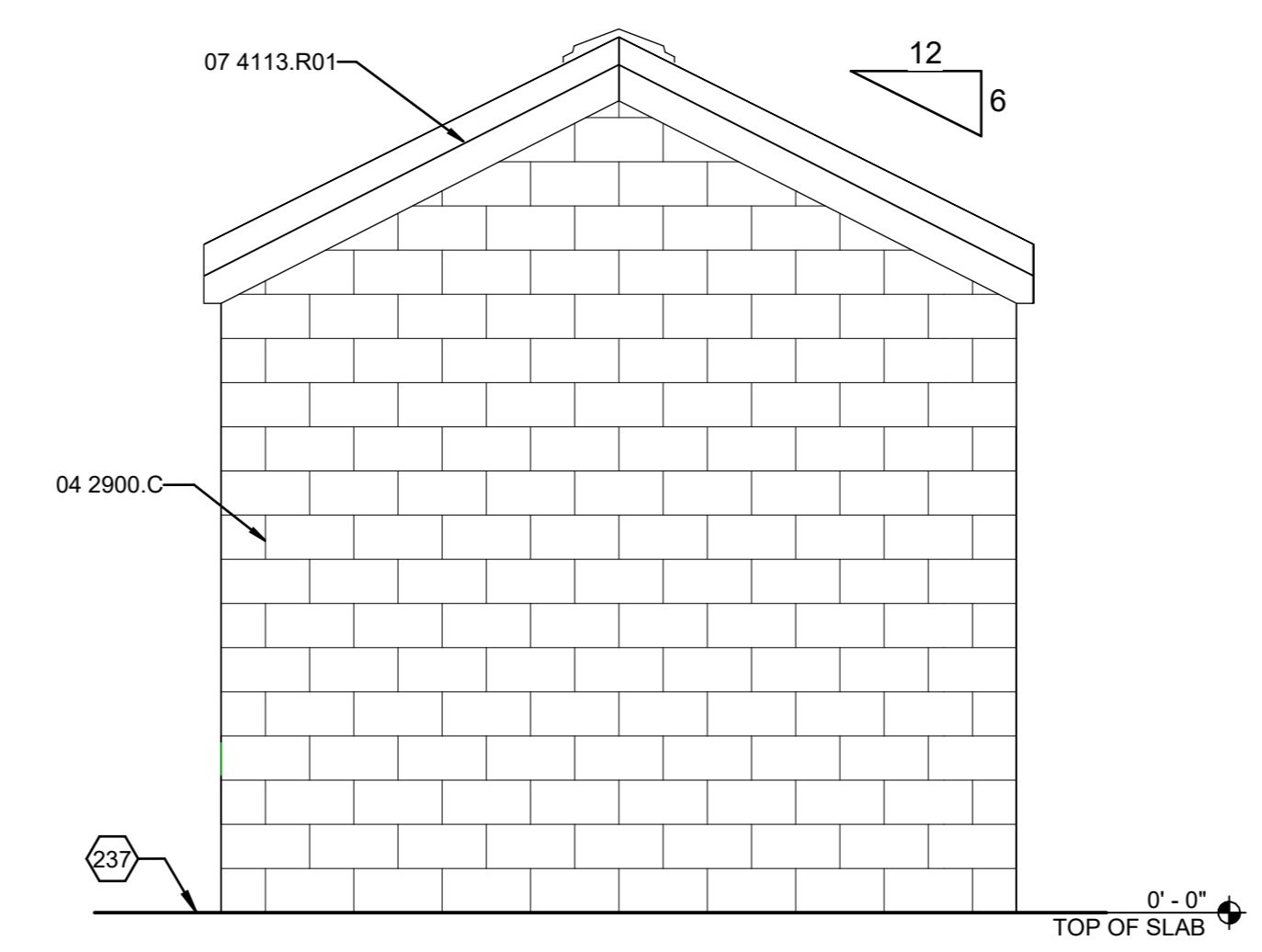
A-201  
 SHEET \_\_\_ OF \_\_\_



D1 BUILDING SECTION  
 1/2" = 1'-0"



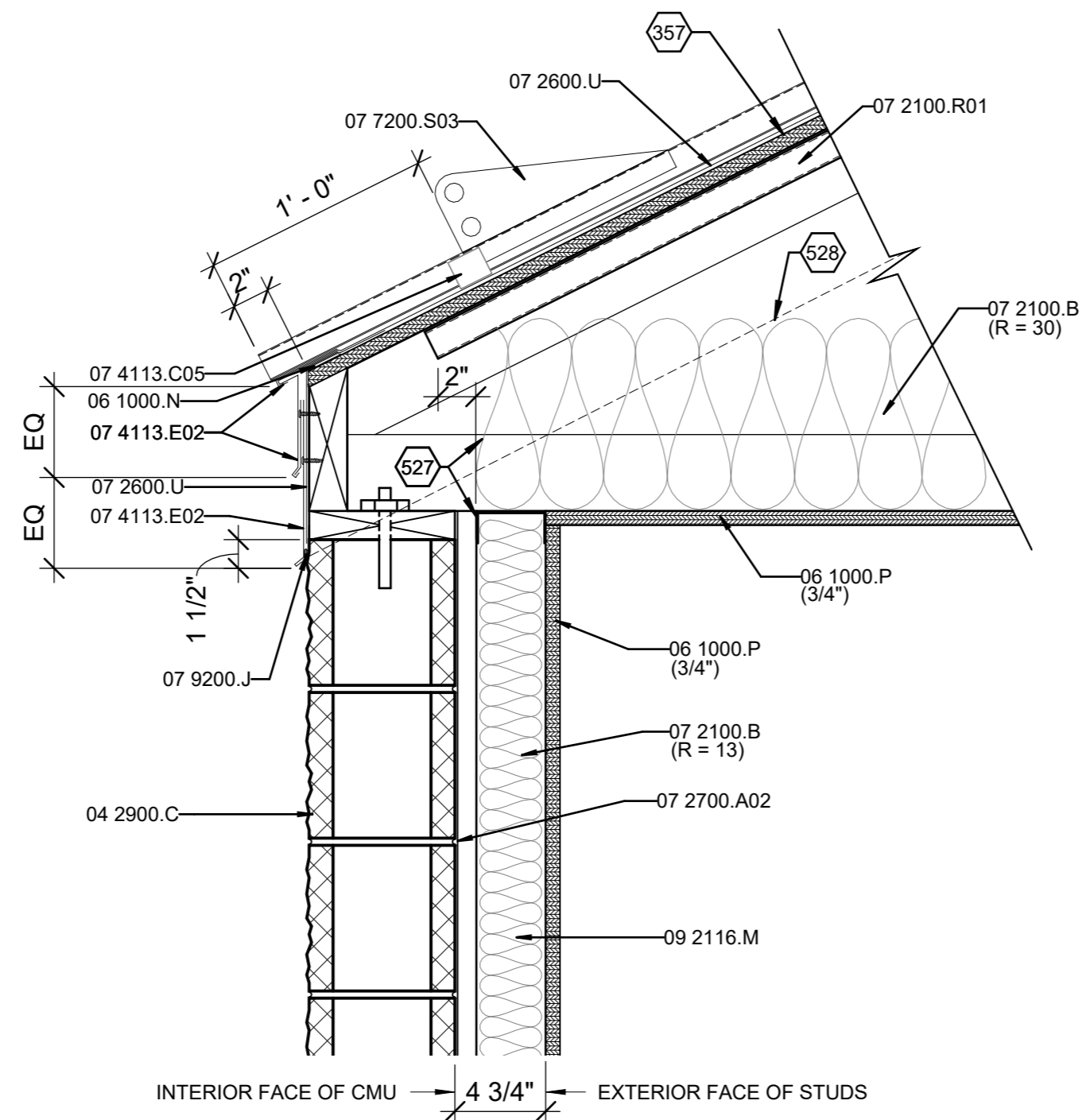
D5 NORTH ELEVATION  
 3/8" = 1'-0"



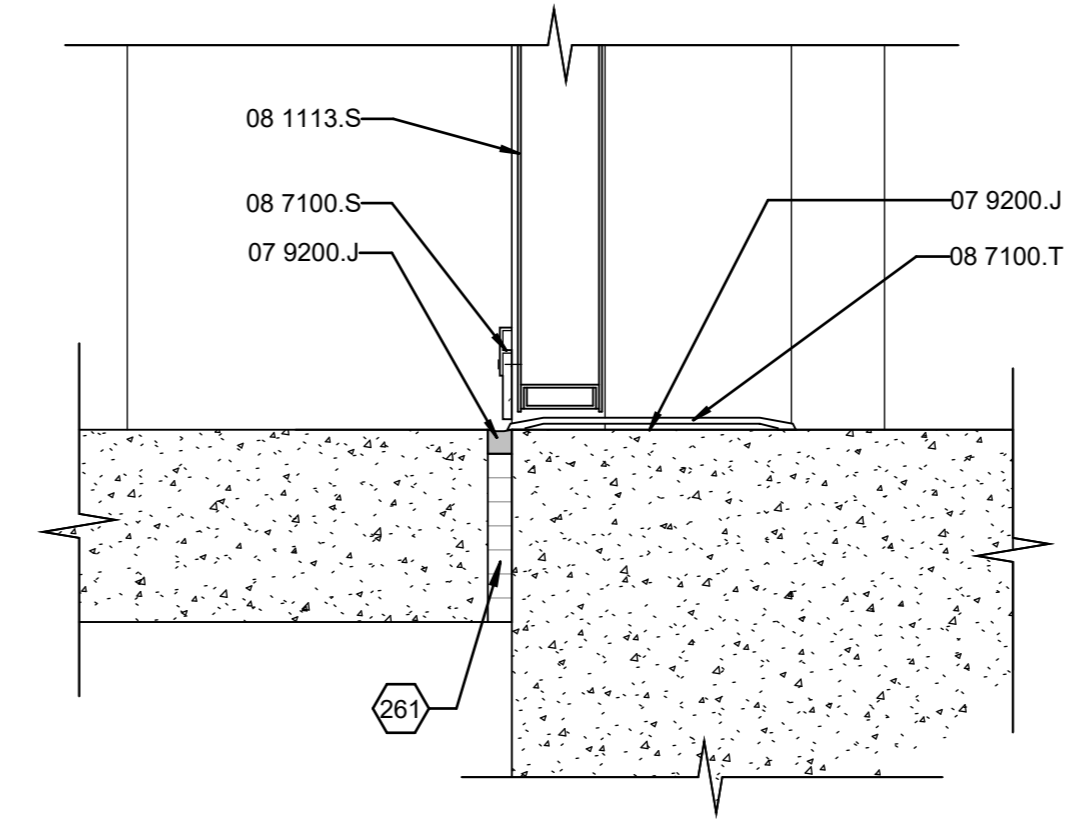
A5 WEST ELEVATION  
 3/8" = 1'-0"

DOOR SCHEDULE

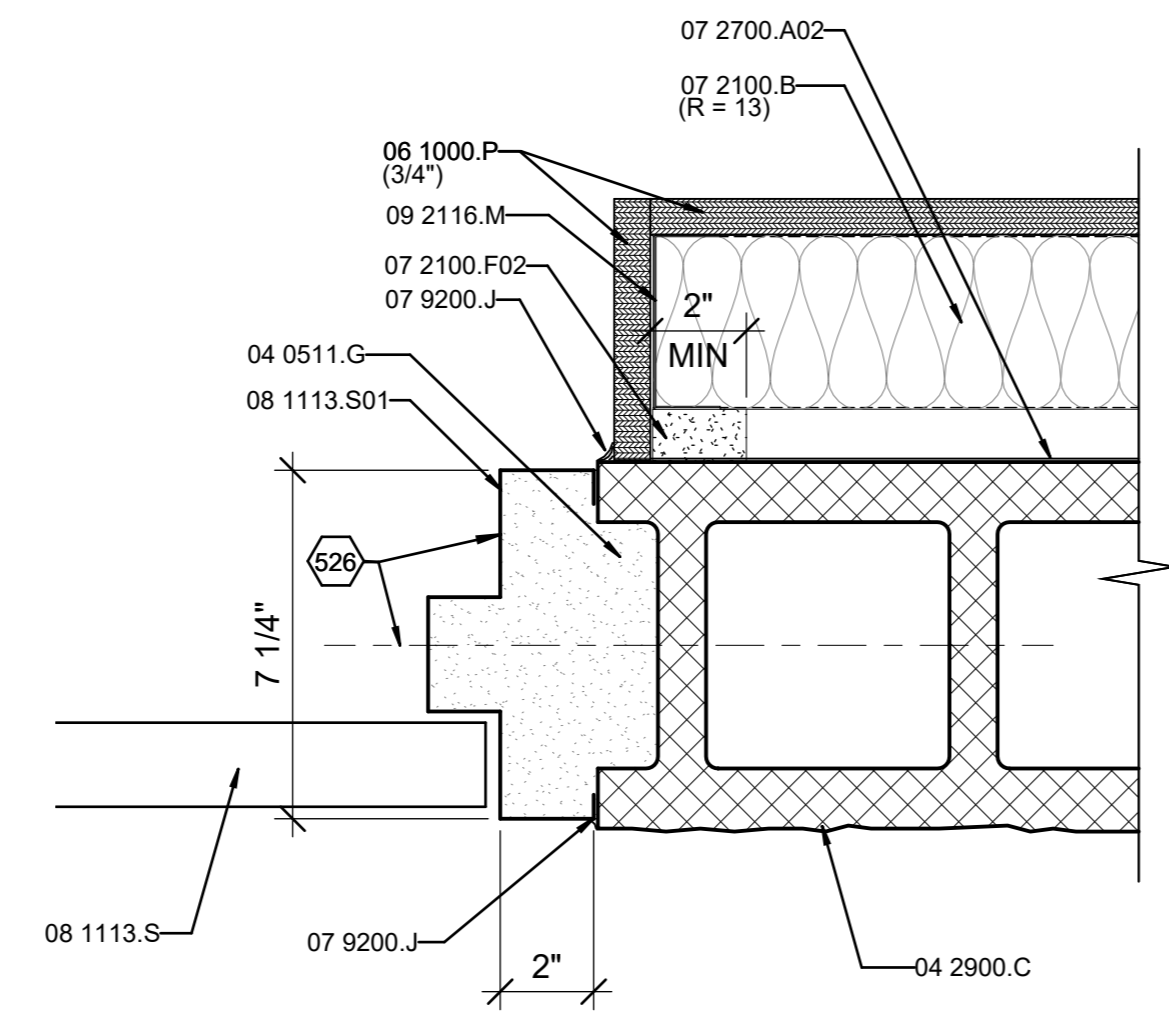
MARK	QTY	DOOR			MATL	EL	EL	MATL	FRAME			FIRE RATING LABEL	SET NO	KEYSIDE	NOTES
		SIZE							DETAILS						
		W	H	THK					HEAD	JAMB	SILL				
101	1	3'-8"	7'-2"	1 3/4"	HM	E1/A-101	E1/A-101	HM	B3/A-501 (SIM)	B3/A-501	E6/A-501	-	1	EXTERIOR	



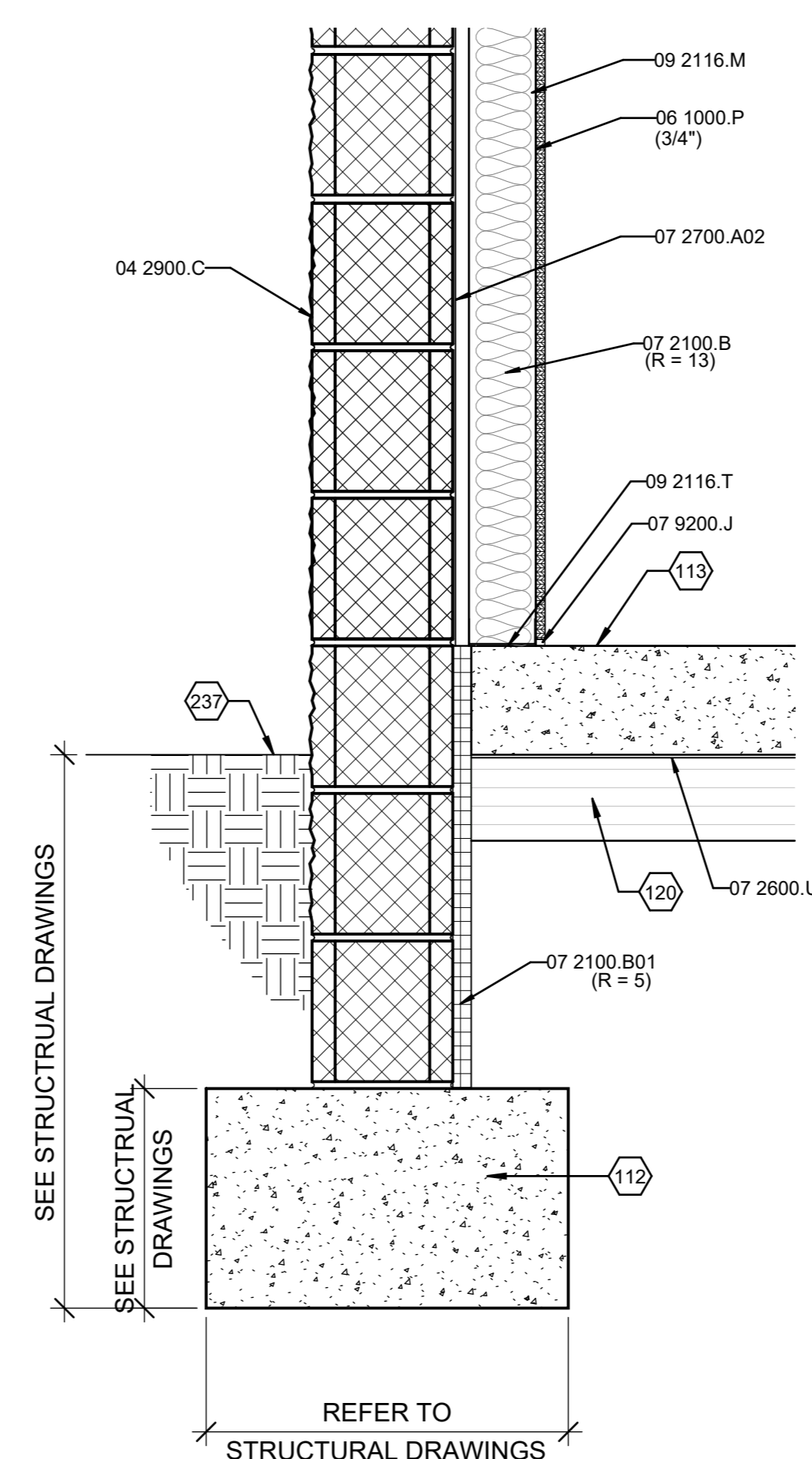
**E3 WALL TO ROOF**  
1 1/2" = 1'-0"



**E6 HM DOOR - SILL**  
3" = 1'-0"



**B3 DOOR JAMB (HEAD SIM)**  
3" = 1'-0"



**A6 EXTERIOR WALL**  
1 1/2" = 1'-0"

**GENERAL SHEET NOTES**

- FINISH FLOOR ELEVATIONS INDICATED ARE BASED ON AN ELEVATION OF 100'-0" - REFER TO CIVIL GRADING AND DRAINAGE PLAN FOR CONTROL DATUM AND BENCHMARK INFORMATION.
- REFER TO STRUCTURAL FOUNDATION PLAN FOR CONCRETE AND MASONRY REINFORCING.

**REFERENCE KEYNOTES**

- REFERENCE SPECIFICATION SECTION XX XXXX.XX
- 04 0511.G GROUT
  - 04 2900.C CONCRETE MASONRY UNITS
  - 06 1000.N NAILER
  - 06 1000.P PLYWOOD
  - 07 2100.B BLANKET INSULATION
  - 07 2100.B01 BOARD INSULATION
  - 07 2100.F02 FOAM INSULATION
  - 07 2100.R01 RAFTER VENT
  - 07 2600.U UNDERSLAB VAPOR RETARDER
  - 07 2700.A02 AIR BARRIER, FLUID-APPLIED
  - 07 4113.C05 CLIP
  - 07 4113.E02 EAIVE TRIM
  - 07 7200.S03 SNOW GUARD
  - 07 9200.J JOINT SEALANT
  - 08 1113.S STEEL DOOR
  - 08 1113.S01 STEEL FRAME
  - 08 7100.S SWEEP
  - 08 7100.T THRESHOLD
  - 09 2116.M METAL STUD
  - 09 2116.T TRACK

**SHEET KEYNOTES**

- 112 CAST-IN-PLACE CONCRETE FOUNDATION.
- 113 CAST-IN-PLACE CONCRETE SLAB.
- 120 COMPACTED SUBGRADE.
- 237 FINISH GRADE. REFER TO CIVIL PLANS FOR ELEVATIONS.
- 261 JOINT FILLER - REFER TO STRUCTURAL PLANS.
- 357 ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
- 526 ALIGN CENTERLINE OF DOOR FRAME WITH CENTERLINE OF CMU
- 527 TERMINATE BLANKET INSULATION AT EXTERIOR FACE OF STUD.
- 528 DASHED LINE INDICATES BOTTOM EDGE OF RAKE TRIM BEYOND.



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PROJECT NAME:  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHSE 3**

MARK	DATE	DESCRIPTION

PROJECT NO:  
20-600-894-03

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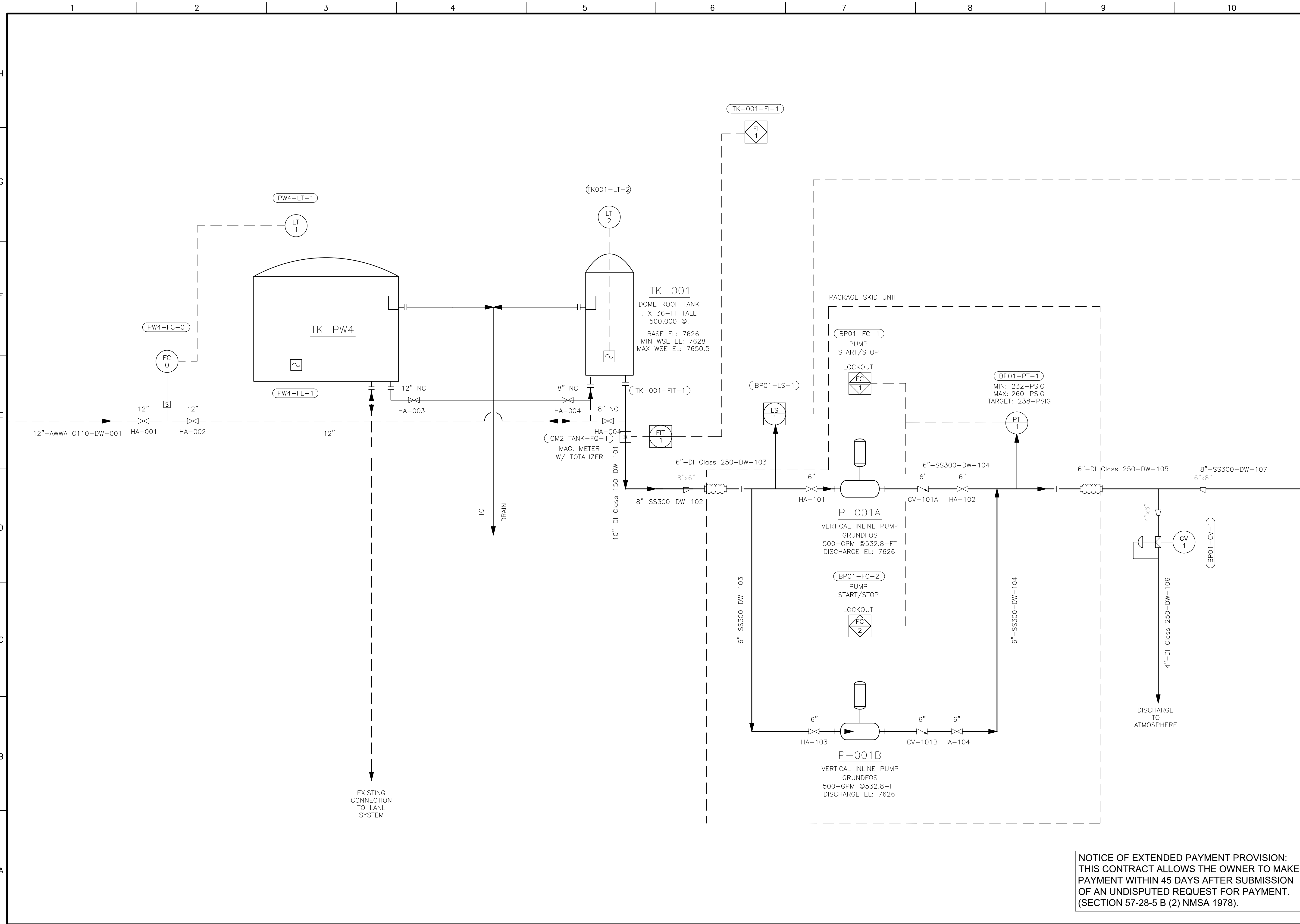
CHECKED BY CRG

SHEET TITLE  
**DETAILS**

**A-501**  
SHEET \_\_\_ OF \_\_\_

3/11/2026 2:36:00 PM

M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\268943\_D-001\_D-005.dwg  
3/11/2026



**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
PHONE: 505-898-8021  
FAX: 505-898-8501  
www.wilsonco.com

CONSULTANTS  
  
 SEAL  
 ROSS M. GABALDON  
 NEW MEXICO  
 PROFESSIONAL ENGINEER  
 3/11/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

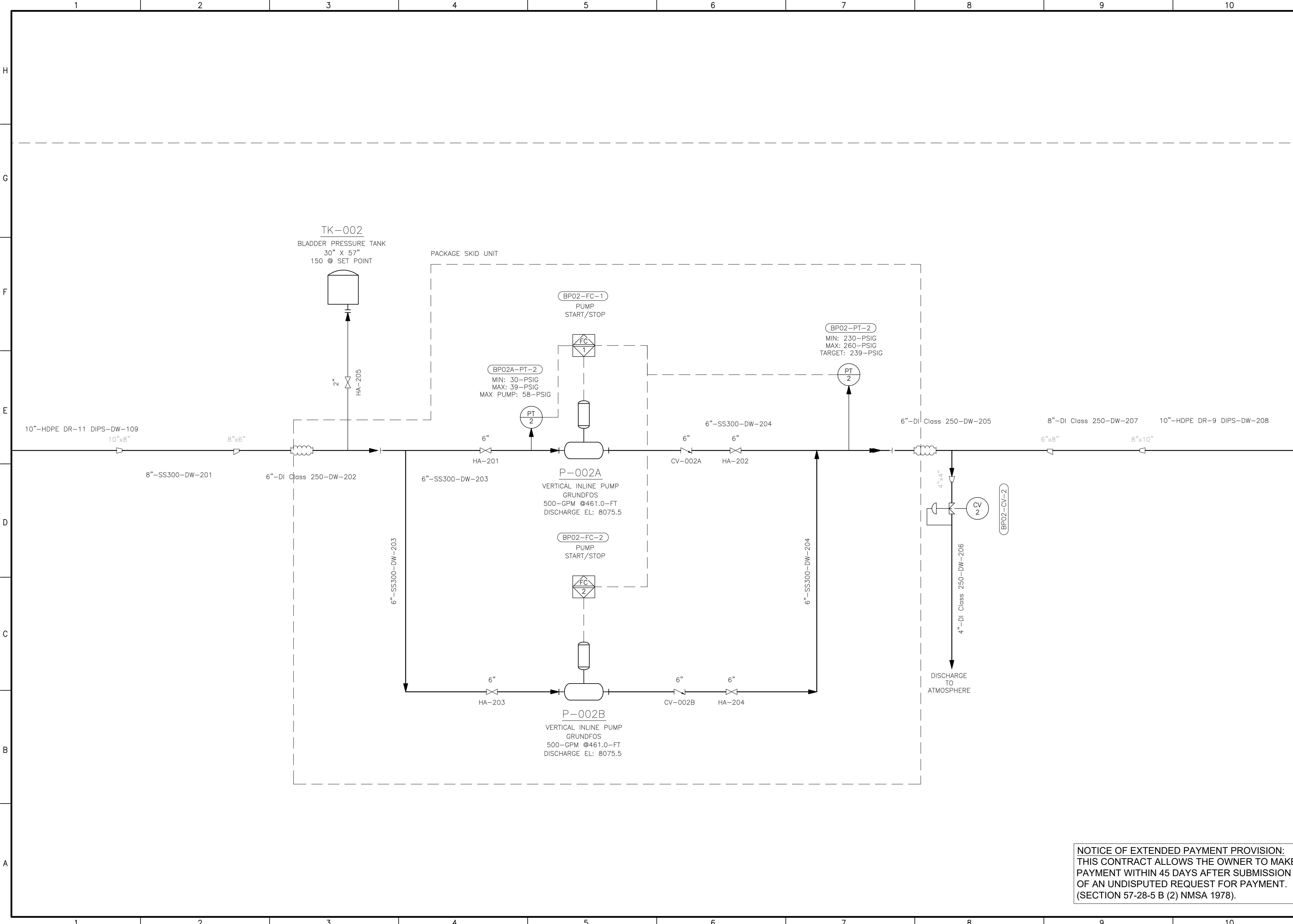
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 1**

SHEET NO:  
**D-001**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

3/11/2026 M:\MSD\20-600-894-032\_Disciplines\SHEETS\8\_sheets - utilities\PHASE III\04\_MECH\268943\_D-001\_D-005.dwg



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CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

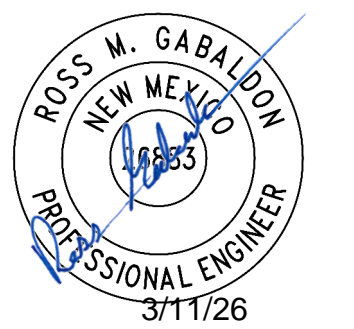
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 2**

SHEET NO:  
**D-002**

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).

CONSULTANTS



SEAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

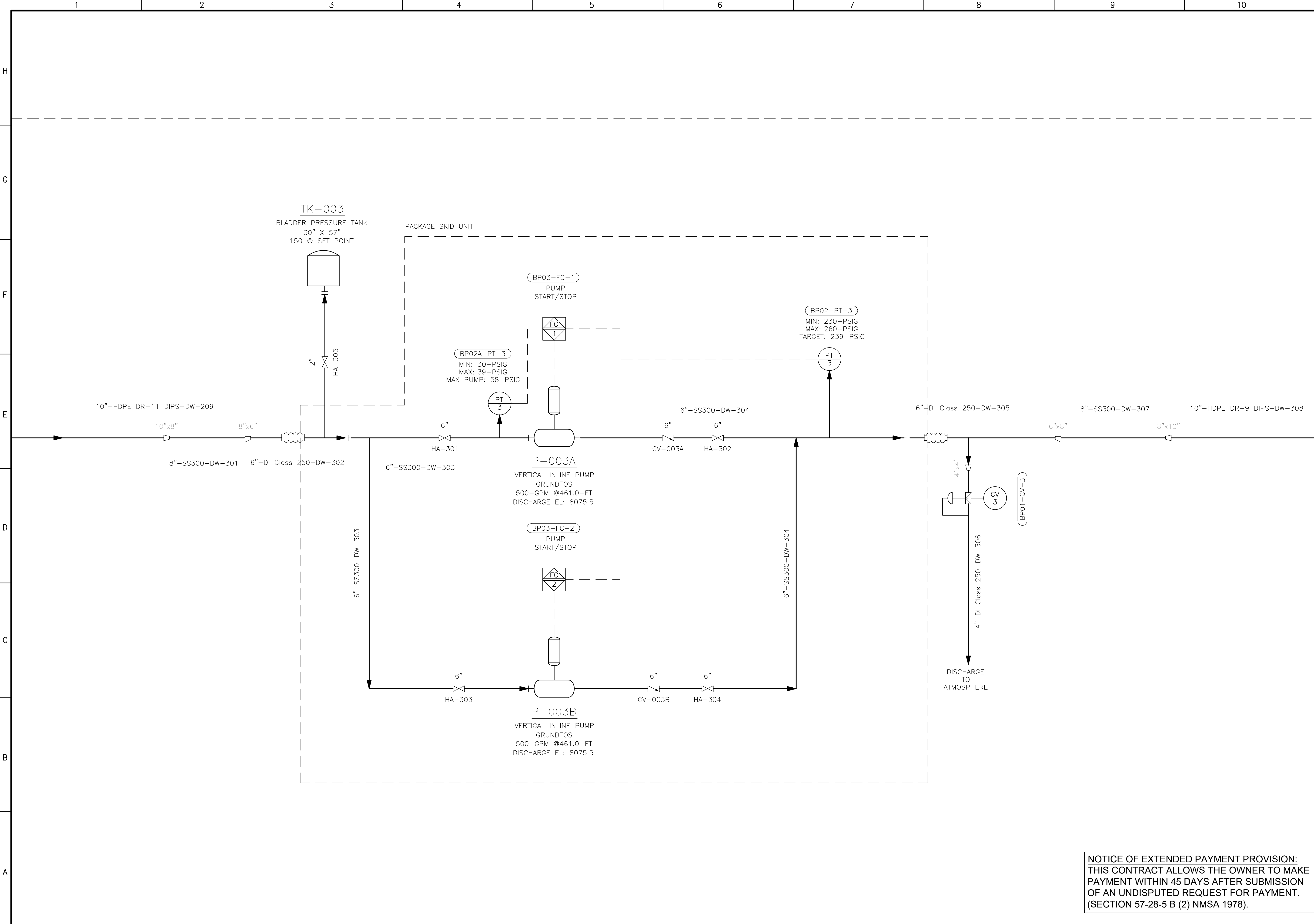
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 3**

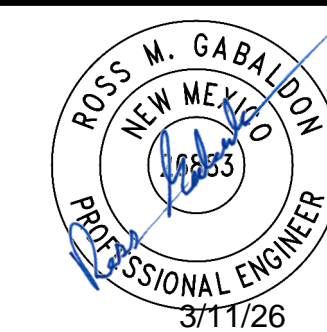
SHEET NO:  
**D-003**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).



3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\268943\_D-001\_D-005.dwg

CONSULTANTS



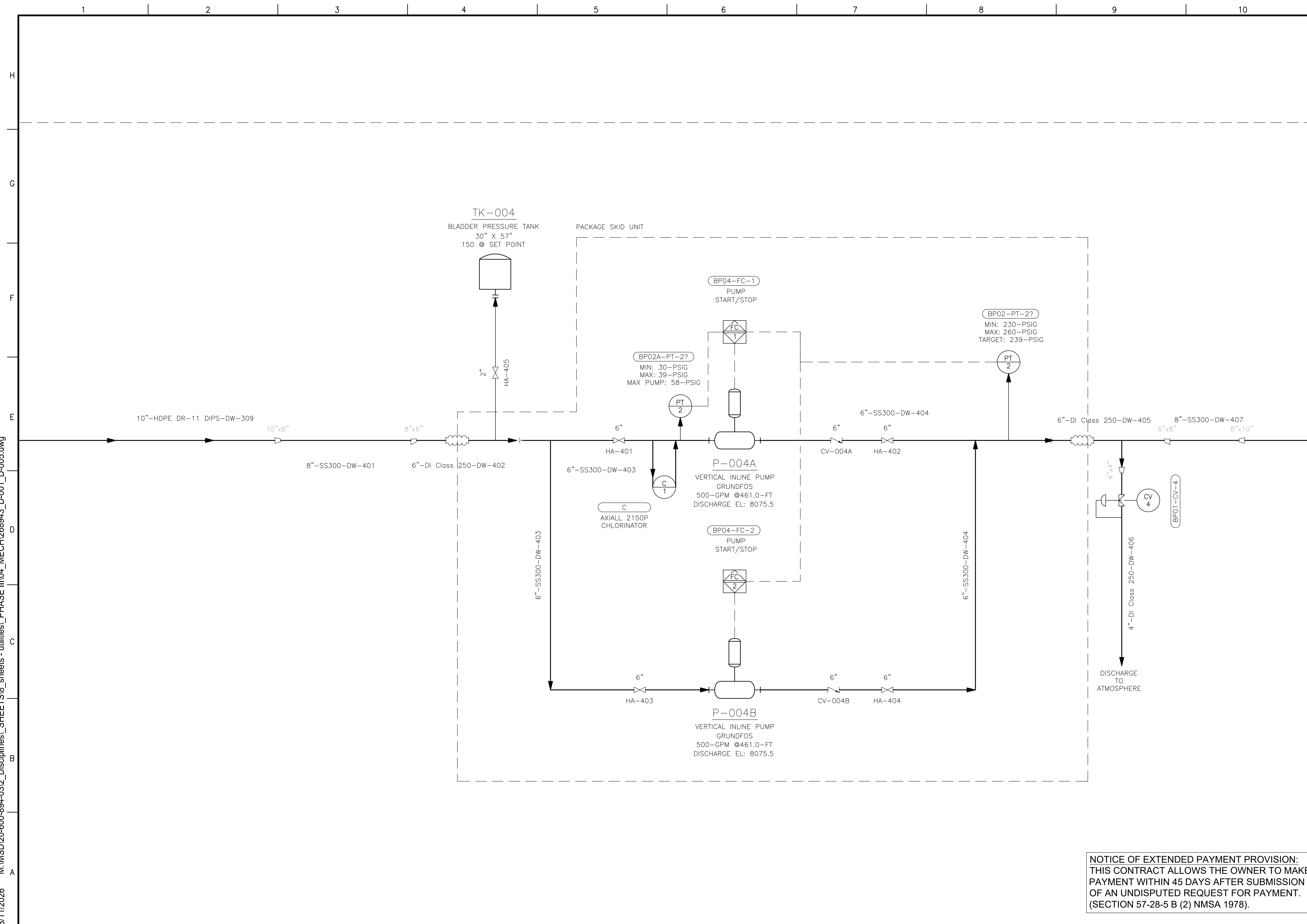
PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW  
 DIAGRAM - BPS 4**

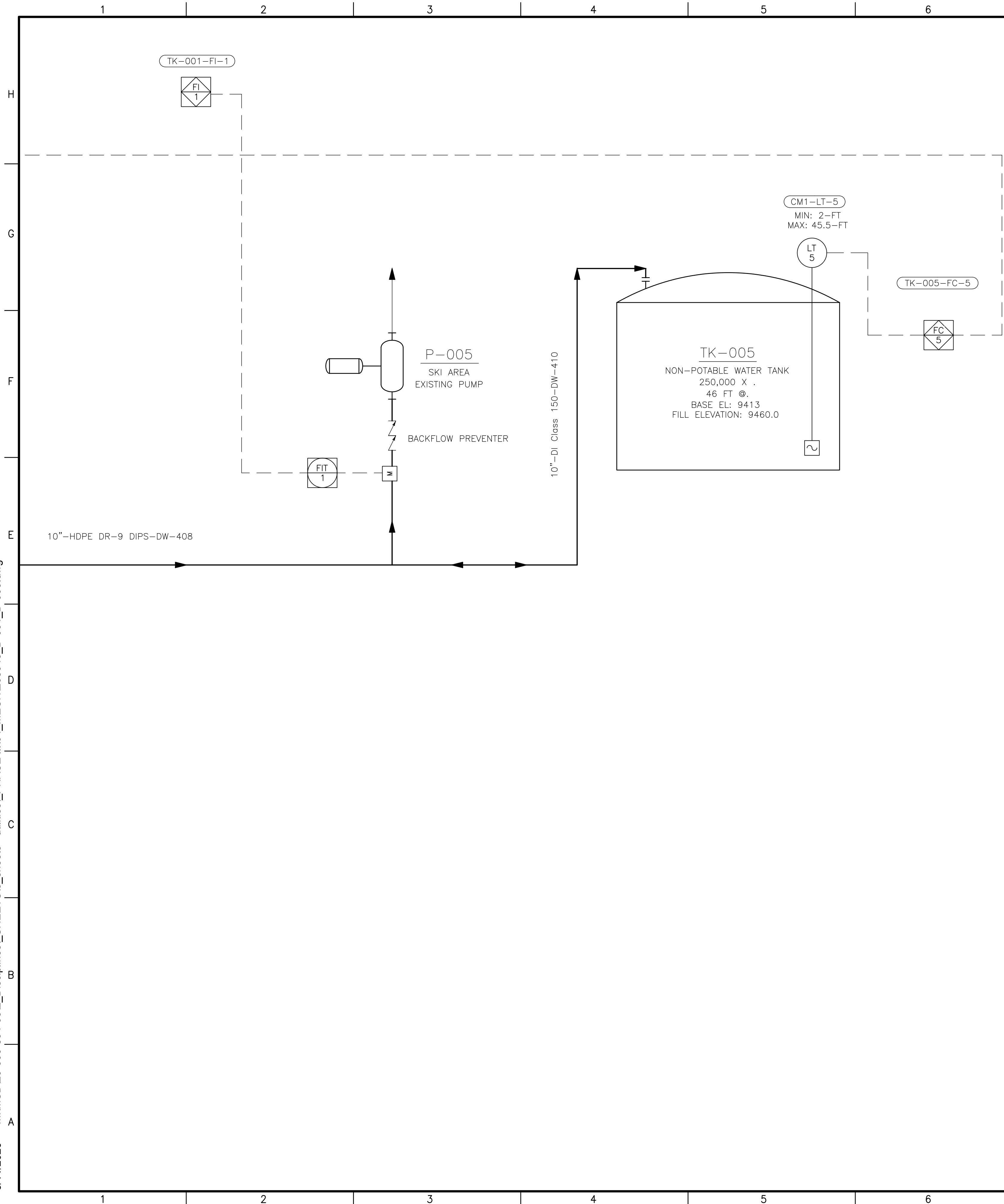
SHEET NO:  
**D-004**



**NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONTRACT ALLOWS THE OWNER TO MAKE  
 PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
 OF AN UNDISPUTED REQUEST FOR PAYMENT.  
 (SECTION 57-28-5 B (2) NMSA 1978).**

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\268943\_D-001\_D-005.dwg

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\288943\_D-001\_D-005.dwg



**VALVE AND CONTROL VALVE SCHEDULE:**

TAG	SIZE	DESCRIPTION	ACTUATOR	STATUS	COMMENT	LOCATION
CV-101A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 1
CV-101B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 1
CV-002A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
CV-002B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
CV-003A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 3
CV-003B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 3
CV-004A	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 4
CV-004B	6"	CHECK VALVE	N/A		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 4
HA-001	12"	GATE VALVE	HAND		IN PW4-FC-0 VAULT	PW4 TANK FILL
HA-002	12"	GATE VALVE	HAND		IN PW4-FC-0 VAULT	PW4 TANK FILL
HA-101	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-102	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-103	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-104	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-105	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-001 CONNETION PIPING
HA-146	12"	GATE VALVE	2" NUT	NC	BURIED GATE VALVE ON PW4-FC-0 BYPASS	PW4 TANK FILL
HA-147	10"	GATE VALVE	2" NUT	NC	BURIED GATE VALVE	PW4 TO TK-001 OVERFLOW
HA-148	12"	GATE VALVE	2" NUT	NC	BURIED GATE VALVE	PW4 TANK BYPASS LINE
HA-201	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-202	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-203	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-204	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-205	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-002 CONNETION PIPING
HA-301	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-302	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-303	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-304	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-305	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-003 CONNETION PIPING
HA-401	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-402	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-403	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-404	6"	GATE VALVE	HAND		INCLUDED W/ PUMP SKID	BOOSTER PUMP STATION 2
HA-105	2"	GATE VALVE	HAND		ISOLATION VALVE FOR BLADDER TANK	TK-003 CONNETION PIPING
INSTRUMENTATION & CONTROL VALVES						
CM1-LT-5	N/A	LIQUID LEVEL SENSOR AND TRANSMITTER			CONTROLS CM TANK 1-CV-5 IN HIGH WL LEVEL CONDITION; SENDS SIGNAL TO BP01 PUMPS TO SHUTDOWN WHEN TANK IS FULL	CAMP MAY NON-POTABLE WATER TANK
CM2 TANK-FQ-1	10"	FQ				
BP01-CV-1	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 1
BP02-CV-2	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 2
BP01-CV-3	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 3
BP01-CV-4	4"	SURGE ANTICIPATOR VALVE	PRESSURE PILOT TUBE	NC	SURGE BLOW OFF VALVE TO ATMOSPHERE	BOOSTER PUMPS STATION 4
CM TANK 1-CV-5	10"	FLOW CONTROL VALVE	SOLNOID		MAINTAINS SYSTEM BACK PRESSURE, OPENS ON SCHEDULED START, ALLOWS PRESSURE DROP IN PIPELINE TO TRIGGER BP-04 TO START	VAULT LOCATED AT CAMP MAY NON-POTABLE WATER TANK
TK-007-CV-500	4"	CV	DIFFERENTIAL PRESSURE		DUAL CHECK BACKFLOW PREVENTOR	PAJARITO POTABLE WATER TANK FILL LINE
PW4-CV-0	12"	ALTITUDE VALVE	PRESSURE PILOT TUBE		EXISTING ALTITUDE VALVE OPENS WHEN PW4 HAS LOW LEVEL, CLOSES WHEN PW4 IS FULL	VAULT LOCATED AT PW4 TANK
PW4-FE-1	N/A	ULTRASONIC LEVEL SENSOR			ULTRASONIC LEVEL SENSOR CONTROLS CYCLING OF PW4-FC-0	PW4 TANK
PW4-FC-0	12"	THREE-WAY VALVE	PRESSURE PILOT TUBE		THRU FLOW WHEN PW4 CAN ACCEPT FLOW; BRANCH FLOW WHEN PW4 IS FULL AND TK-001 CAN ACCEPT FLOW; CLOSED WHEN PW4 AND TK-001 ARE FULL - REPLACES PW-CV-0	VAULT LOCATED AT PW4 TANK

**NOTICE OF EXTENDED PAYMENT PROVISION:**  
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 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
 FAX: 505-898-8501  
 www.wilsonco.com

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CONSULTANTS

---

PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

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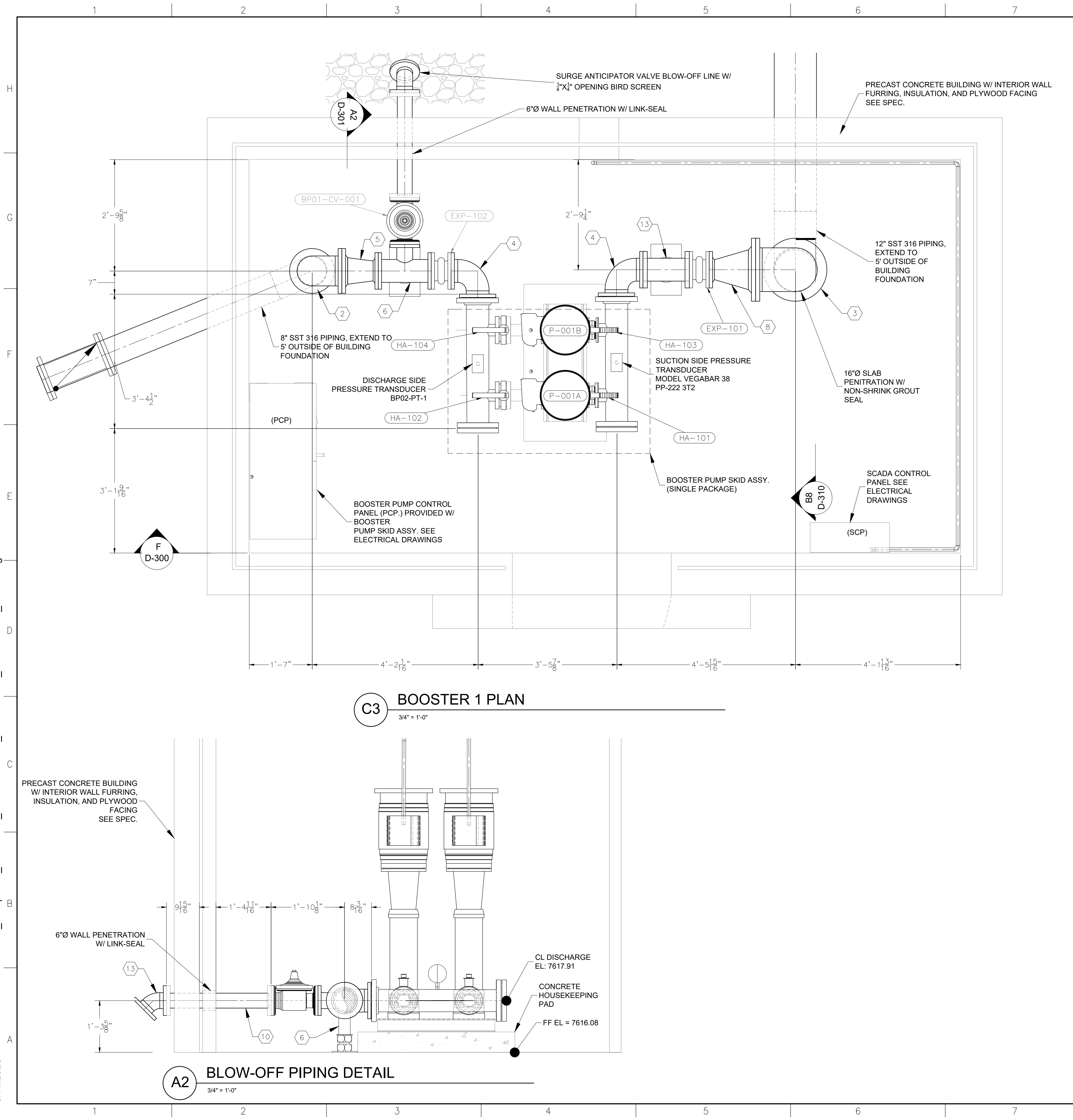
PROJECT NO: 22-600-894-03  
 DESIGNED BY: RMG  
 DRAWN BY: STAFF  
 CHECKED BY: RMG  
 DATE: MARCH 2026

SHEET TITLE  
**PROCESS FLOW DIAGRAM UPPER TANK SITE**

---

SHEET NO:  
D-005

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\56214\_D-101.dwg



**PROJECT EQUIPMENT SCHEDULE:**

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	LOCATION
TK-001	DOME ROOF TANK			500,000-GAL. TANK, 36' TALL x 50'-DIA. WELDED STEEL POTABLE WATER TANK - SEE PHASE 4	PAJARITO TANK 4 SITE
TK-002	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 2
TK-005	NON-POTABLE WATER TANK			EXISTING TANK	PAJARITO SKI AREA
TK-003	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" NPT BOTTOM PORT, 200-PSIG RATING	BOOSTER PUMP STATION 3
TK-004	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 3
TK-PW4	DOME ROOF TANK			EXIST. 1.5-MG NON-POTABLE WATER TANK	PAJARITO TANK 4 SITE
P-001A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-001B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-002A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-002B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-003A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-003B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-004B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
P-004A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4

**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	12" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLxFL	1
3	12" DI 90-DEG BEND FLxFL	1
4	6" DI 90-DEG BEND FLxFL	2
5	6"x8" DI ECC. RED. FLxFL	1
6	6"x4" DI TEE FLxFL	1
7	3" STL. ADJUSTABLE STANCTION	2
8	12"x6" DI ECC. RED. FLxFL	1
9	8" DI FLANGE, 250-LB	1
10	4" DI PIPE SPOOL	-
11	4" DI 45-DEG BEND FLxFL W/ 1/4"x1/4" BIRD SCREEN	1
12	4" DI FLANGE, 250-LB	1
13	6" DI PIPE SPOOL	1

NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

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CONSULTANTS

SEAL

ROSS M. GABALDON  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3/11/26

PROJECT NAME

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

REV.

REV.	DESCRIPTION	BY

DATE

DATE	DESCRIPTION	BY

PROJECT NO:

22-600-894-03

DESIGNED BY:

RMG

DRAWN BY:

STAFF

CHECKED BY:

RMG

DATE:

MARCH 2026

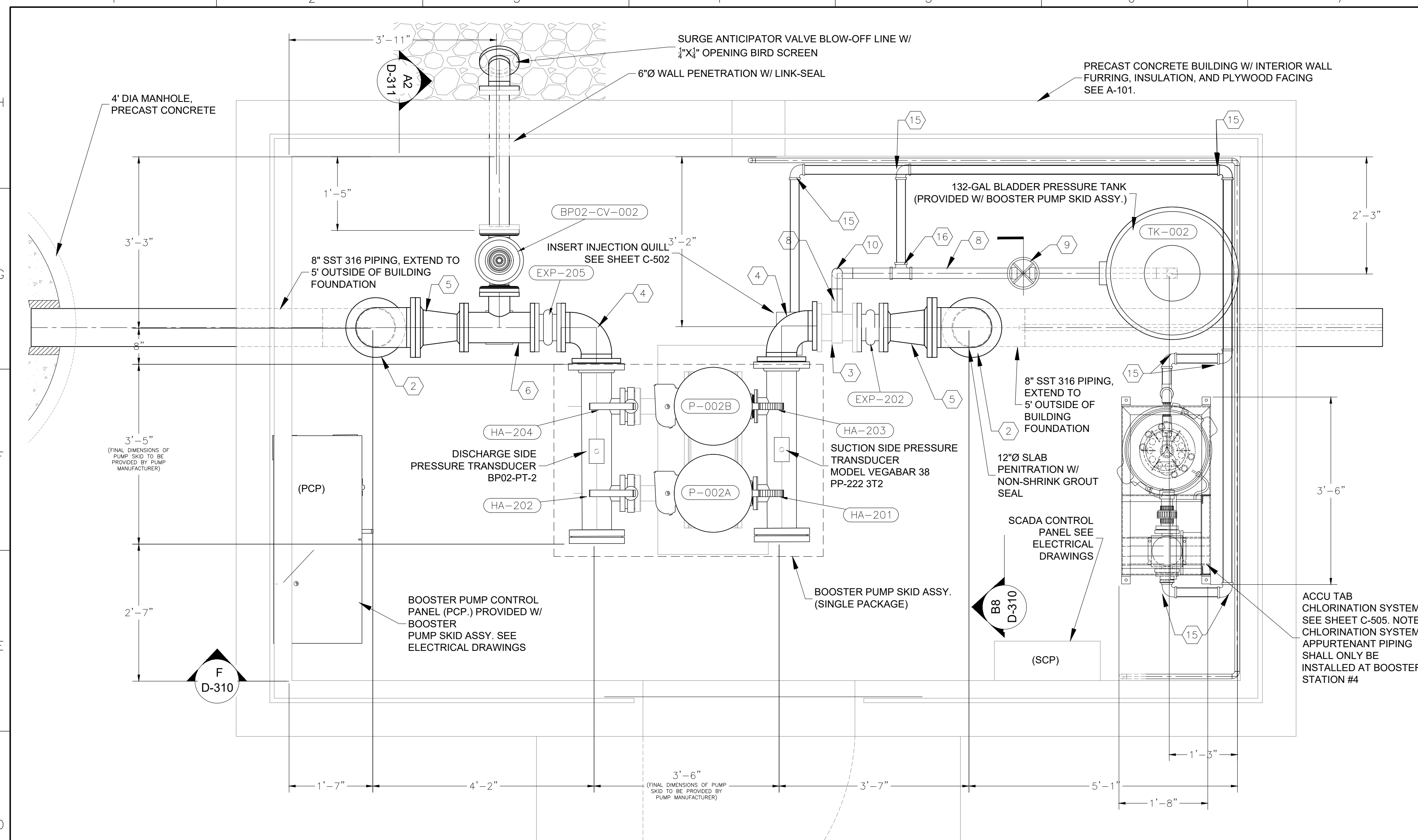
SHEET TITLE

BOOSTER STATION  
1 PLAN AND  
DETAILS

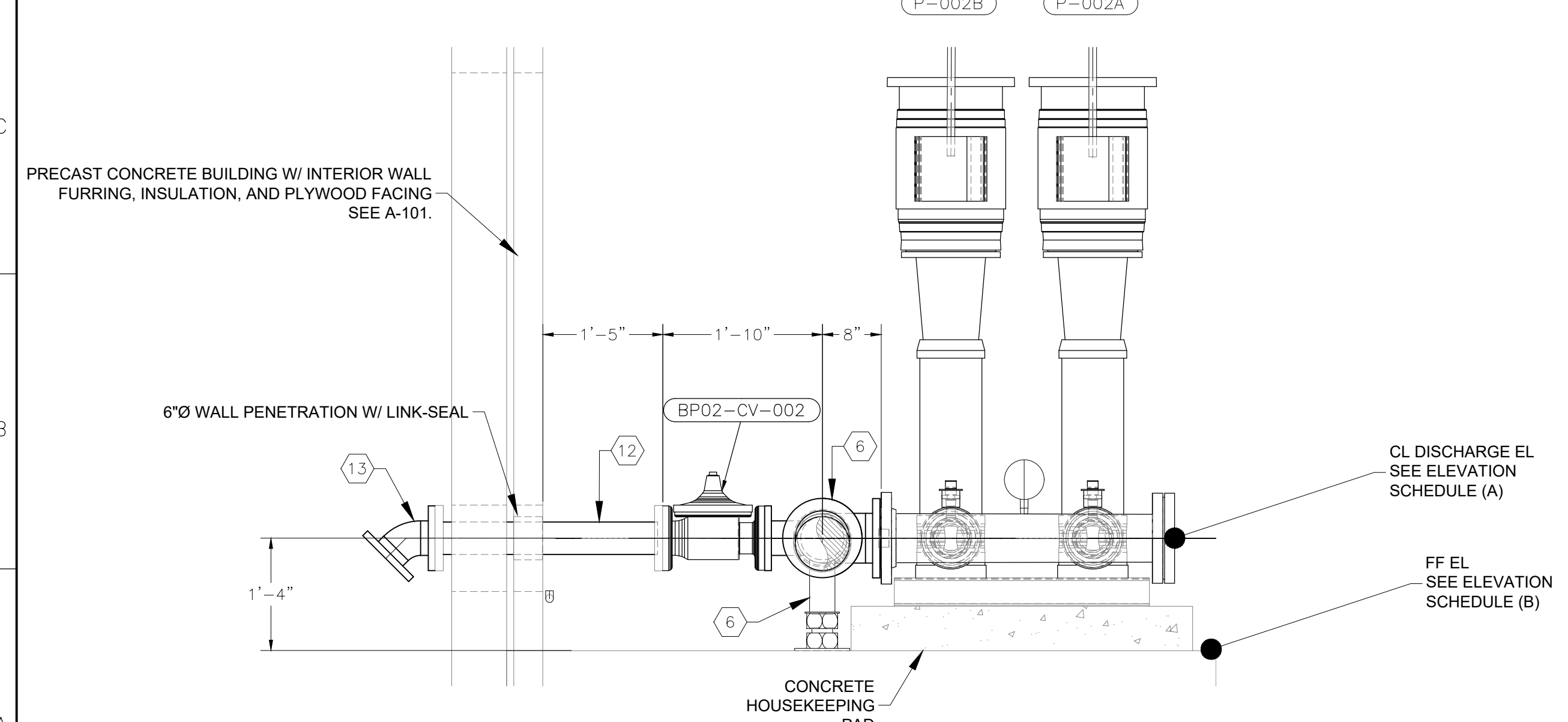
SHEET NO:

D-101

3/11/2026 M:\MSD\20-600-894-03\2\_Disciplines\_SHEETS\8\_sheets - utilities\_PHASE III\04\_MECH\56214\_D-102.dwg



**C3 BOOSTER 2, 3, AND 4 PLAN**  
3/4" = 1'-0"



**A2 BLOW-OFF PIPING DETAIL**  
3/4" = 1'-0"

**EQUIPMENT SCHEDULE:**

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	LOCATION
TK-001	DOME ROOF TANK			500,000-GAL TANK, 36' TALL x 50'-DIA. WELDED STEEL POTABLE WATER TANK - SEE PHASE 4	PAJARITO TANK 4 SITE
TK-002	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 2
TK-005	NON-POTABLE WATER TANK			EXISTING TANK	PAJARITO SKI AREA
TK-003	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" NPT BOTTOM PORT, 200-PSIG RATING	BOOSTER PUMP STATION 3
TK-004	BLADDER PRESSURE TANK	GRUNDFOS	GFXA-500	139-GAL. PRESSURE TANK W/ 2" BOTTOM PORT	BOOSTER PUMP STATION 3
TK-PW4	DOME ROOF TANK			EXIST. 1.5-MG NON-POTABLE WATER TANK	PAJARITO TANK 4 SITE
P-001A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-001B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 518.3 FT @ 85.37% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3370 RPM	BOOSTER PUMP STATION 1
P-002A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-002B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 2
P-003A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-003B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 3
P-004A	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
P-004B	VERTICAL INLINE PUMP	GRUNDFOS	CR45-7-2	Q=250 GPM @ 443.9 FT @ 73.17% HEAD RATIO, 50-HP, 3/480V/60Hz, RATED SPEED = 3211 RPM	BOOSTER PUMP STATION 4
C	CHLORINATOR	AXIALL	2150P	SI CALCIUM HYPOCHLORITE TABLETS, 8-40 GPM FLOW METER, 20 GAL PVC TANK, CR5-20 480-3PHASE GRUNDFOS PUMP	BOOSTER PUMP STATION 4

**FITTING SCHEDULE**

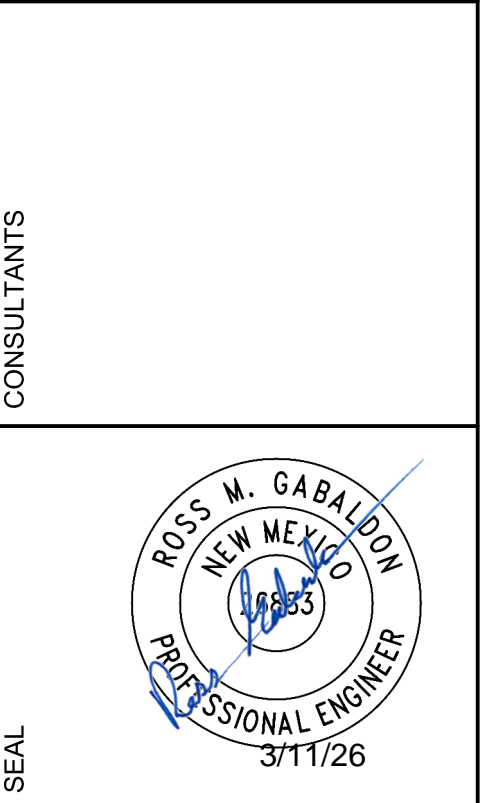
ITEM NO.	DESCRIPTION	QTY
1	8" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLxFL	2
3	6" DI SPOOL W/ 2" TAPPING SADDLE	1
4	6" DI 90-DEG BEND FLxFL	2
5	6"x8" DI ECC. RED. FLxFL	2
6	6"x4" DI TEE FLxFL	1
7	3" STL ADJUSTABLE STANCTION	2
8	2" GALV. STL PIPE, NPT	-
9	2" BRASS GAVE VALVE W/ DISSIMILAR METAL ISOLATORS	1
10	2" GALV. STL 90-DEG ELBOW, NPT	1
11	8' DI FLANGE, 250-LB	1
12	4" DI PIPE SPOOL	-
13	4" DI 45-DEG BEND FLxFL W/ 1/4"x1/4" BIRD SCREEN	1
14	4" DI FLANGE, 250-LB	1
15	2" DI 90-DEG BEND FLxFL	8
16	2"x2" DI TEE FLxFL	1

**ELEVATION SCHEDULE**

PUMP STATION	CL DISCHARGE EL (A)	FF EL (B)
2	8075.5	8074.2
3	8570.5	8519.2
4	8933	8931.7

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PROJECT NAME  
**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

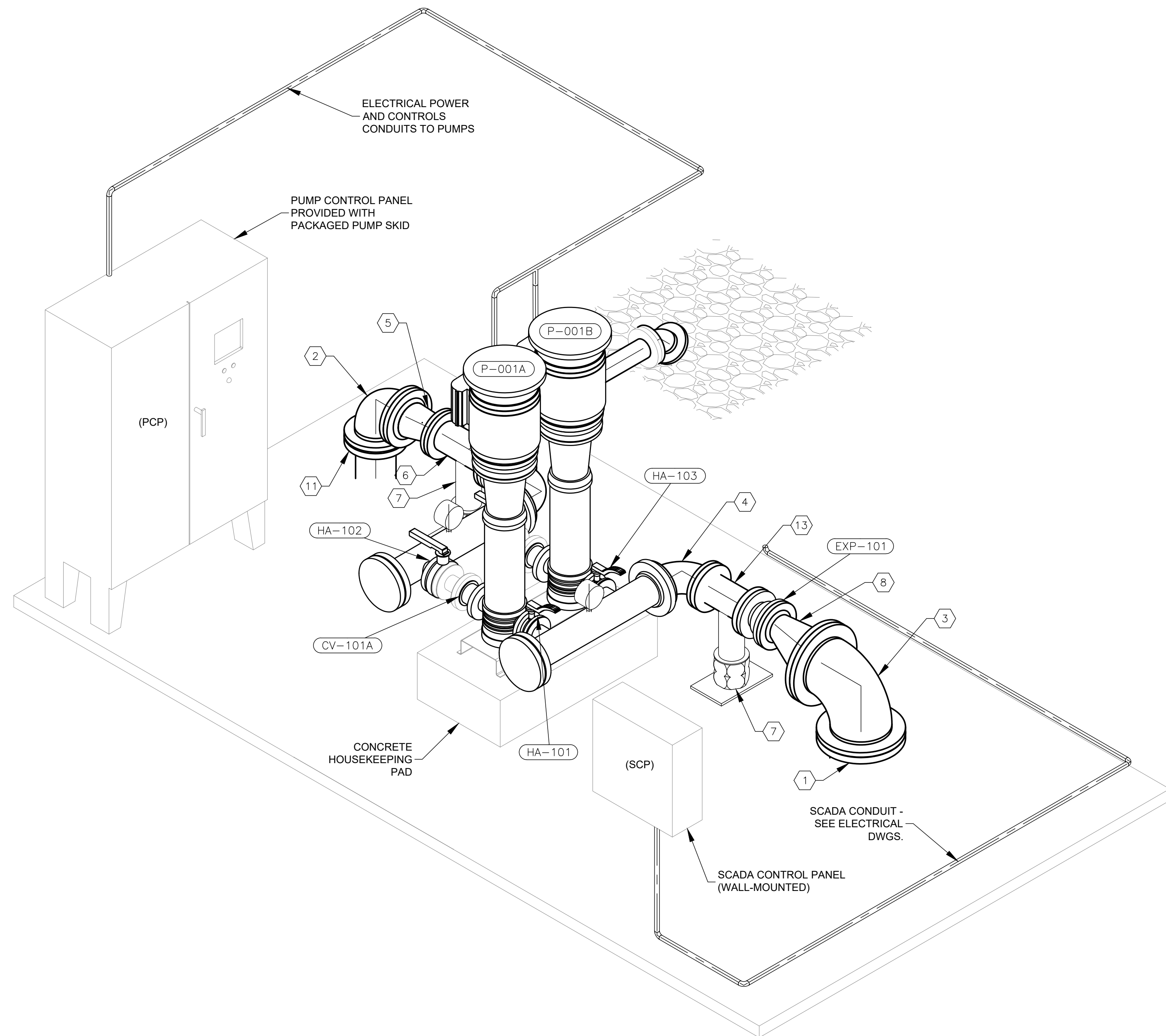
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

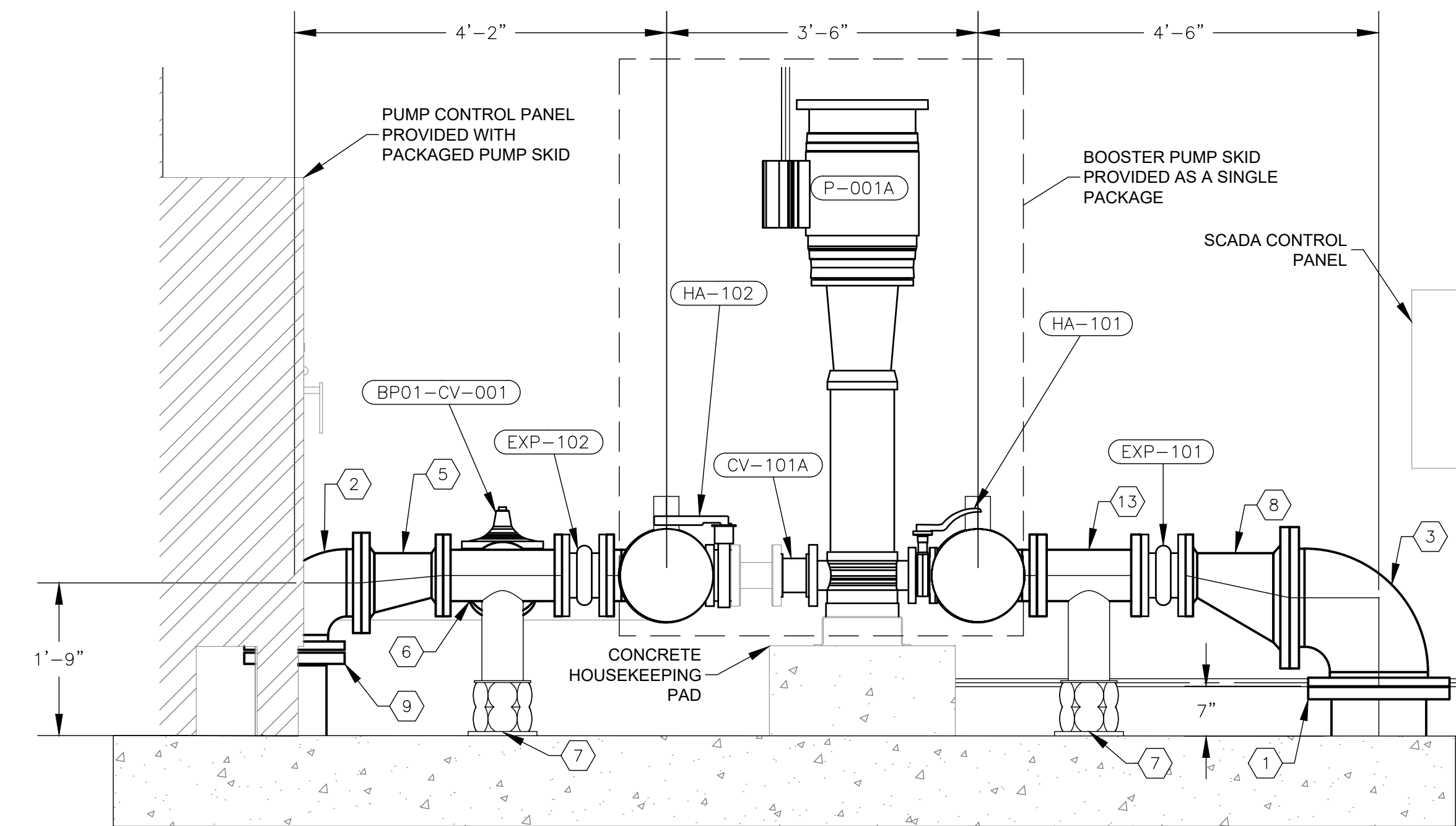
SHEET TITLE  
**BOOSTER STATION 2, 3, AND 4 PLAN & DETAILS**

SHEET NO: **D-102**

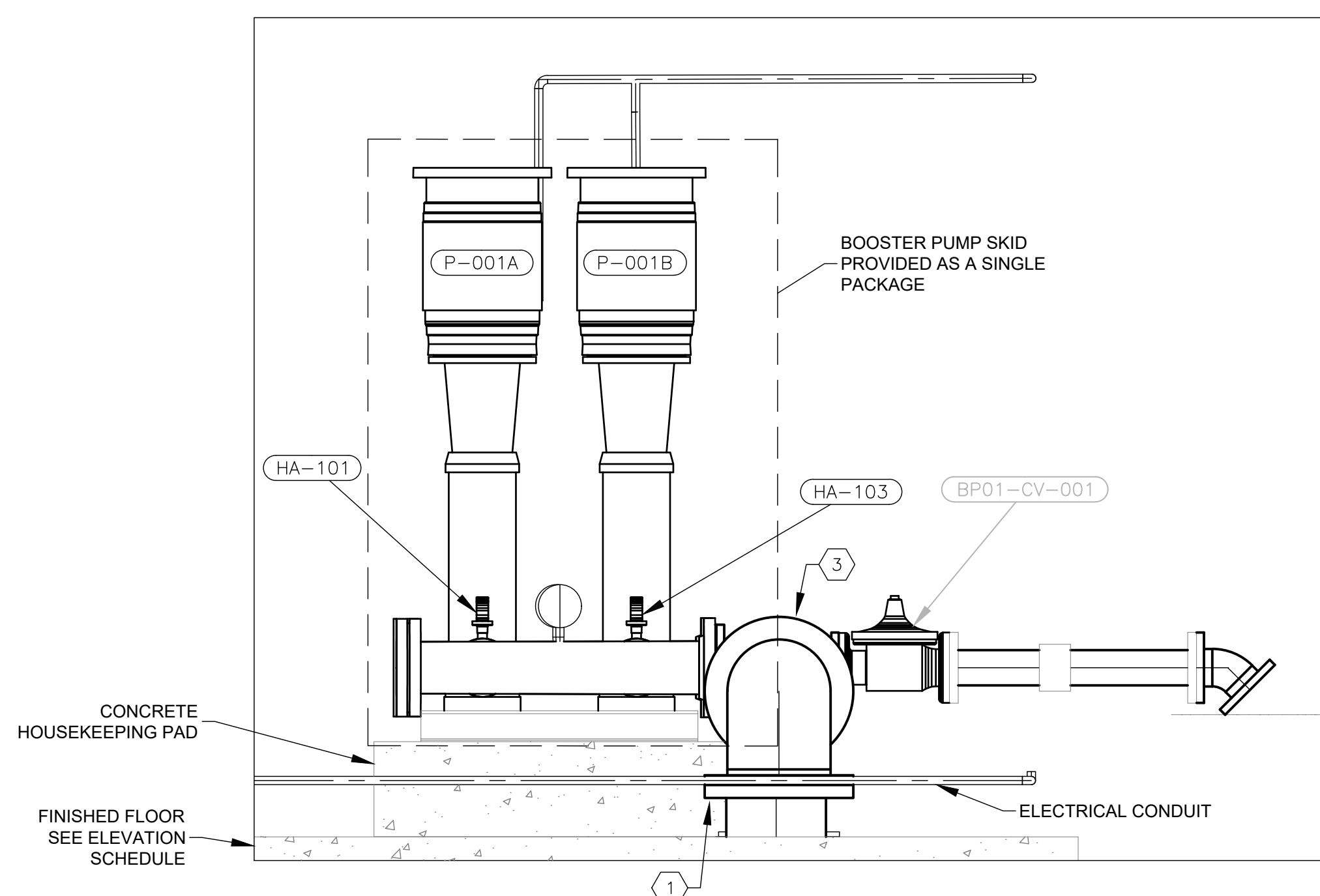
3/11/2026 M:\MSD\20-600-894-032\_Disciplines\Sheets - utilities\PHASE III\04\_MECH\56214\_D-301.dwg



**B2** BOOSTER STATION 1 - ISOMETRIC VIEW  
3/4" = 1'-0"



**F7** PIPING SECTION - FRONT VIEW  
3/4" = 1'-0"



**B8** PUMP SECTION - SIDE VIEW  
3/4" = 1'-0"

**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	12" DI FLANGE, 150-LB	1
2	8" DI 90-DEG BEND FLxFL	1
3	12" DI 90-DEG BEND FLxFL	1
4	6" DI 90-DEG BEND FLxFL	2
5	6"x8" DI ECC. RED. FLxFL	1
6	6"x4" DI TEE FLxFL	1
7	3" STL. ADJUSTABLE STANCTION	2
8	12"x6" DI ECC. RED. FLxFL	1
9	8" DI FLANGE, 250-LB	1
10	4" DI PIPE SPOOL	-
11	4" DI 45-DEG BEND FLxFL W/ 1/4"x1/4" BIRD SCREEN	1
12	4" DI FLANGE, 250-LB	1
13	6" DI PIPE SPOOL	1

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. (SECTION 57-28-5 B (2) NMSA 1978).

**WILSON & COMPANY**  
2600 THE AMERICAN RD. SE SUITE 100  
RIO RANCHO, NM 87124  
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CONSULTANTS

ROSS M. GABALDON  
NEW MEXICO  
PROFESSIONAL ENGINEER  
3711/26

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

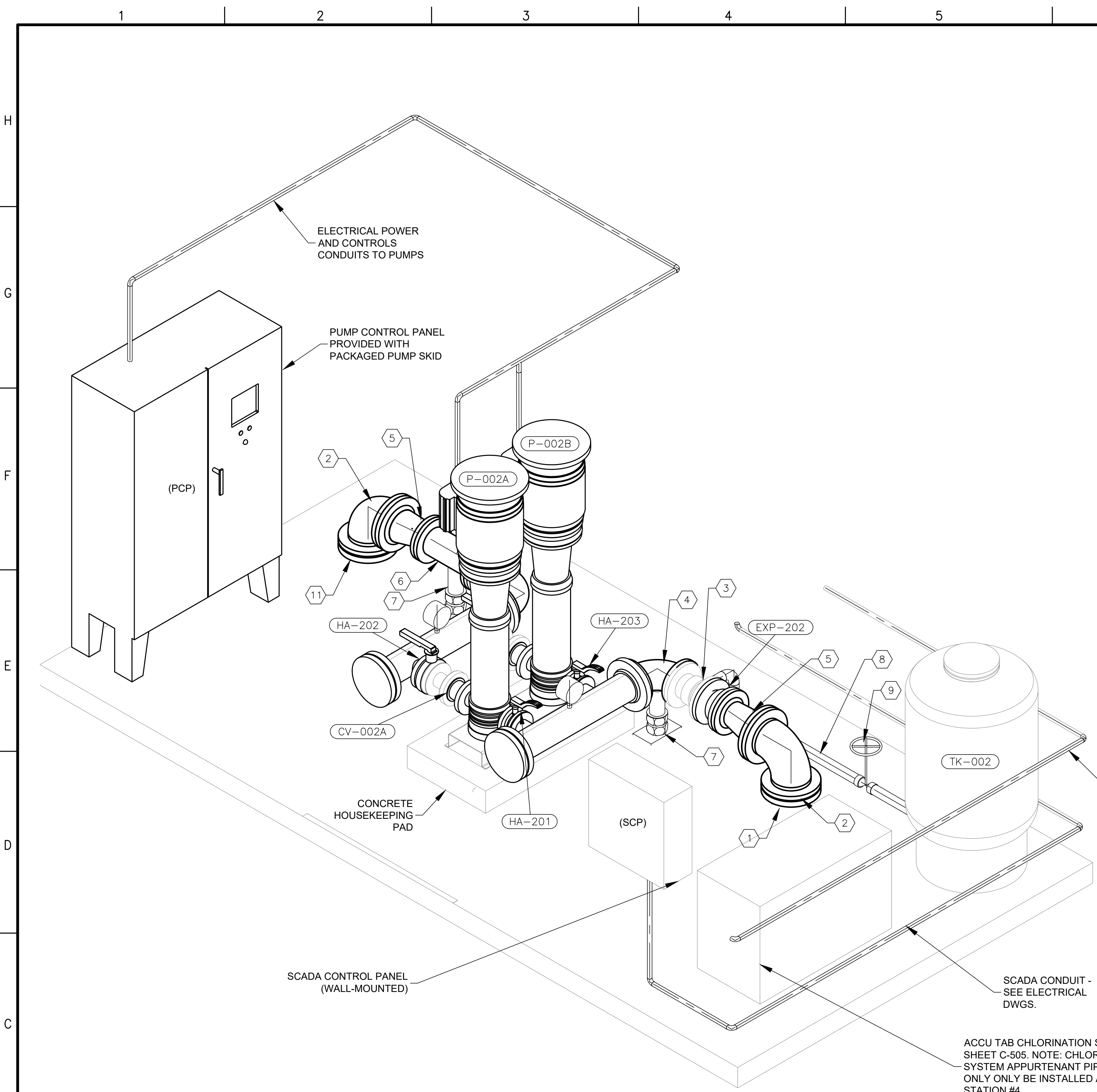
REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**BOOSTER STATION 1  
ISOMETRIC VIEW**

SHEET NO:  
**D-201**

M:\MSD\20-600-894-03\2\_Disciplines\SHEETS\8\_sheets - utilities\PHASE III\04\_MECH\56214\_D-302.dwg  
3/11/2026



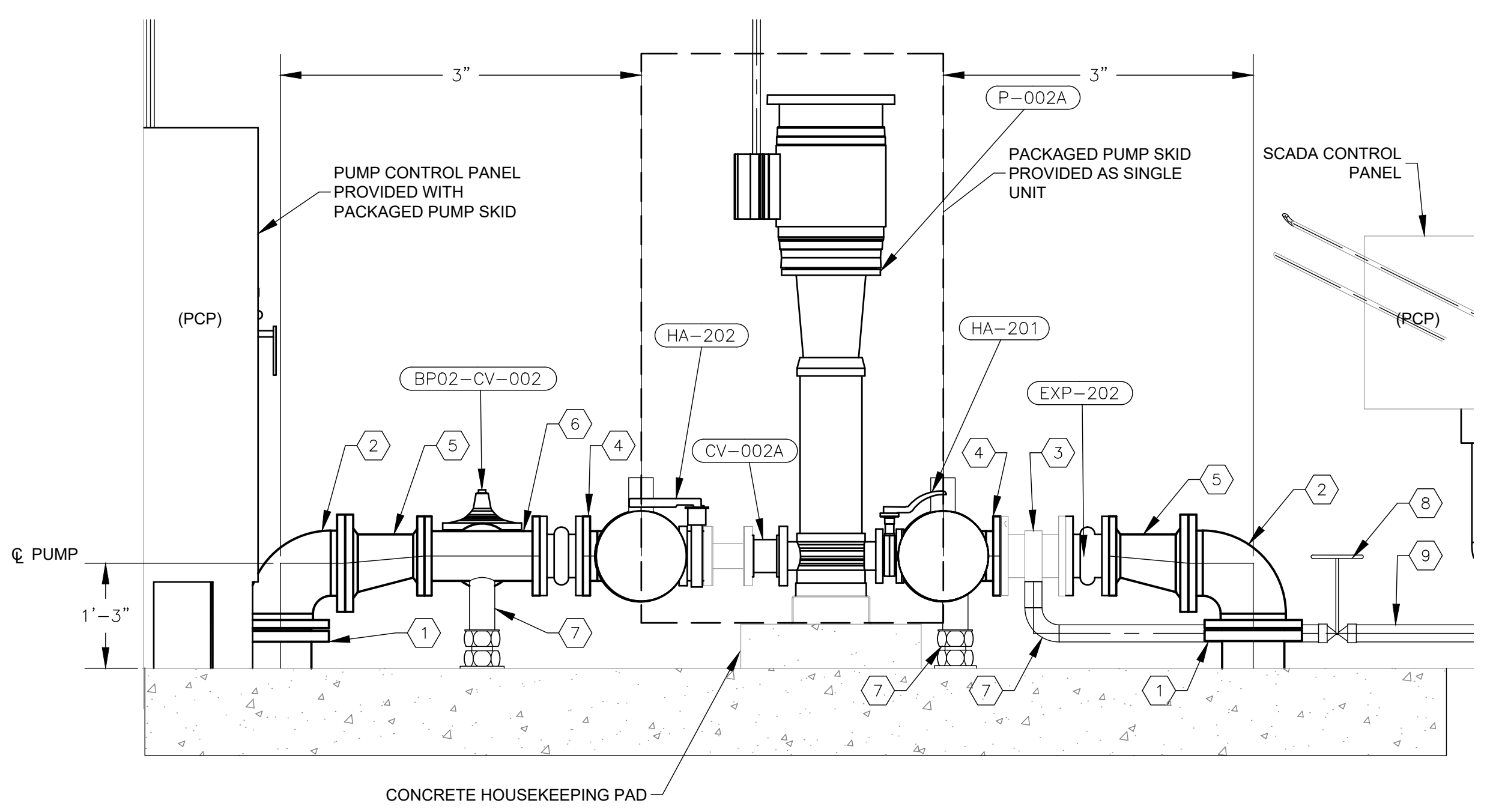
**B2 BOOSTER STATION 2, 3 AND 4 - ISOMETRIC VIEW**  
3/4" = 1'-0"

ACCU TAB CHLORINATION SYSTEM SEE SHEET C-505. NOTE: CHLORINATION SYSTEM APPURTENANT PIPING SHALL ONLY BE INSTALLED AT BOOSTER STATION #4

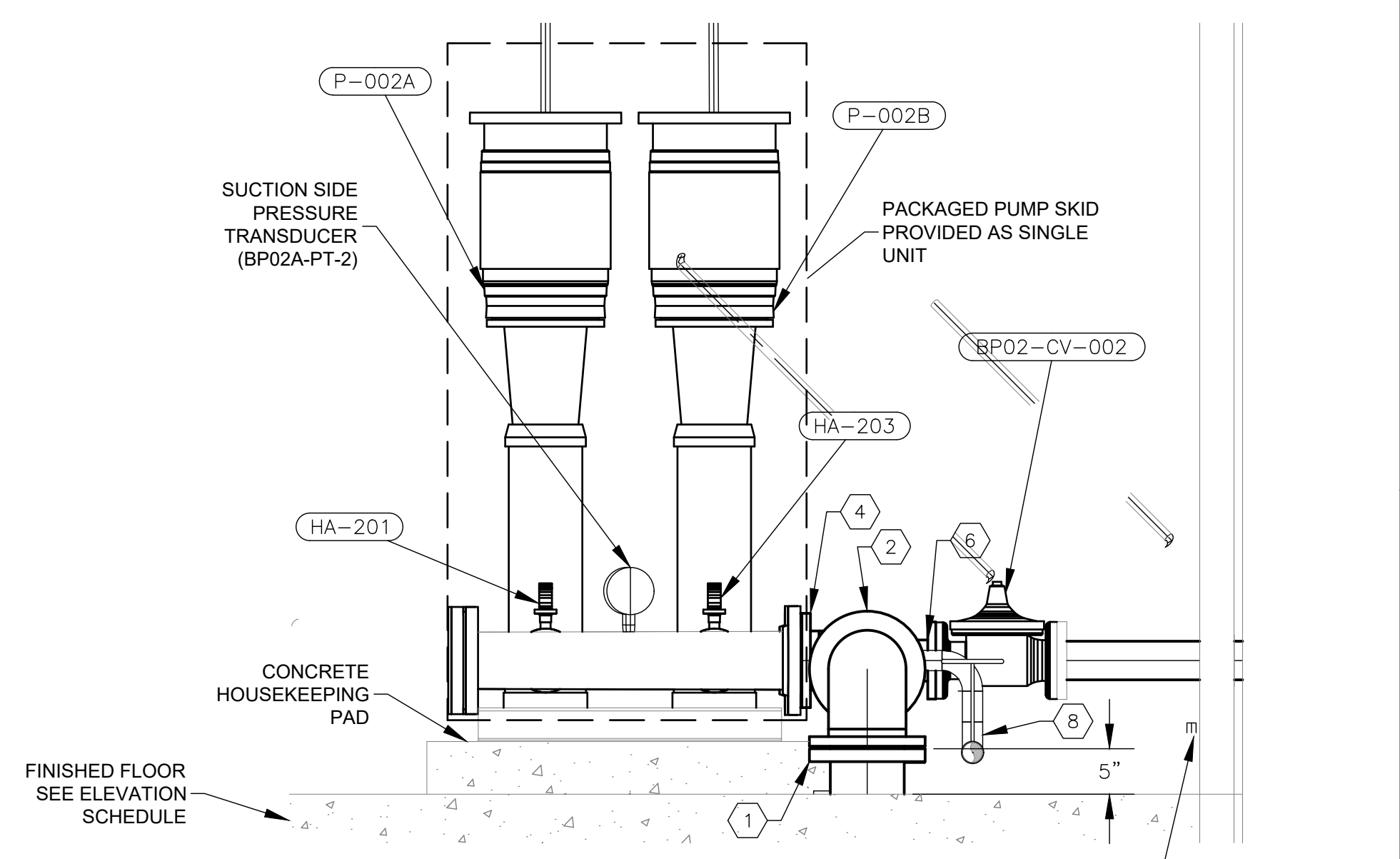
**FITTING SCHEDULE**

ITEM NO.	DESCRIPTION	QTY
1	8" FLANGE, 150-LB	1
2	8" 90-DEG BEND FLxFL	2
3	6" SPOOL W/ 2" TAPPING SADDLE	1
4	6" 90-DEG BEND FLxFL	2
5	6"x8" ECC. RED. FLxFL	2
6	6"x4" TEE FLxFL	1
7	3" ADJUSTABLE STANCTION	2
8	2" GALV. STL PIPE, NPT	-
9	2" BRASS GAVE VALVE W/ DISSIMILAR METAL ISOLATOR	1
10	2" GALV. STL 90-DEG ELBOW, NPT	1
11	8" FLANGE, 250-LB	1

SEE EQUIPMENT SCHEDULE ON SHEET D-005 FOR TAG IDENTIFIED EQUIPMENT SHOWN ON THIS SHEET.



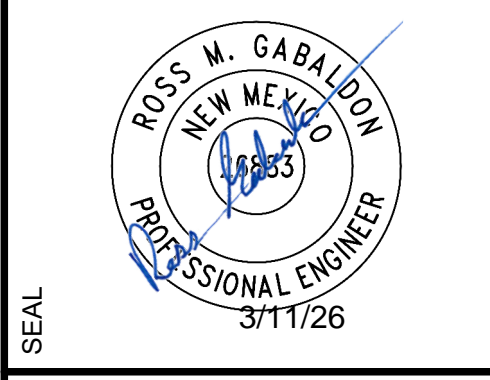
**F7 PIPING SECTION - FRONT VIEW**  
3/4" = 1'-0"



**B8 PUMP SECTION - SIDE VIEW**  
1" = 1'-0"

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CONSULTANTS



PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 22-600-894-03  
DESIGNED BY: RMG  
DRAWN BY: STAFF  
CHECKED BY: RMG  
DATE: MARCH 2026

SHEET TITLE  
**BOOSTER  
STATION 2, 3, AND  
4 ISOMETRIC**

SHEET NO:  
**D-202**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONTRACT ALLOWS THE OWNER TO  
MAKE PAYMENT WITHIN 45 DAYS AFTER  
SUBMISSION OF AN UNDISPUTED REQUEST  
FOR PAYMENT. (SECTION 57-28-5 B (2)  
NMSA 1978).

# ELECTRICAL SYMBOL LEGEND

THIS LEGEND IS A COMPREHENSIVE COLLECTION OF ELECTRICAL SYMBOLS - NOT ALL SYMBOLS REPRESENTED HERE OR ABBREVIATIONS ARE USED ON THIS SET OF DRAWINGS

## GENERAL

	COLUMN GRID IDENTIFIER
	DETAIL IDENTIFIER DETAIL NUMBER DRAWING NUMBER SHOWING DETAIL
	EQUIPMENT IDENTIFIER
	MATCH LINE IDENTIFIER
	RISER IDENTIFIER
	SECTION IDENTIFIER DRAWING NUMBER SHOWING SECTION SECTION LETTER
	SHEET KEY NOTE IDENTIFIER
	ROOM NUMBER
	REVISION IDENTIFIER
	MATERIAL SCHEDULE KEY

## SERVICE and DISTRIBUTION

	DISTRIBUTION SWITCHBOARD
	BRANCH CIRCUIT PANELBOARD
	CONTROL OR COMMUNICATIONS PANEL
	TELEPHONE EQUIPMENT OR TERMINAL BOARD
	UTILITY METER AND BASE (DIRECT METER)
	UTILITY CT METER CABINET
	UTILITY METER PEDESTAL AND PANEL

## SITE

	BOLLARD LUMINAIRE
	GROUND ROD OR EXOTHERMIC WELD
	POWER POLE
	POLE MOUNTED LUMINAIRE PHASE CONNECTION BASE COORDINATE TABLE IDENTIFIER
	FLUSH IN-GRADE JUNCTION BOX
	PAD MOUNTED TRANSFORMER
	PAD MOUNTED SWITCH
	PAD MOUNTED METERING
	OP OVERHEAD POWER
	OT OVERHEAD TELEPHONE
	OTV OVERHEAD CATV (VIDEO)
	UE UNDERGROUND POWER
	UT UNDERGROUND TELEPHONE
	UTV UNDERGROUND CATV (VIDEO)

## CIRCUITS

	CONCEALED CIRCUIT RACEWAY (NOT BELOW SLAB)
	EXPOSED CONDUIT
	FLEXIBLE CONDUIT
	UNDERGROUND OR EMBEDDED CIRCUIT RACEWAY
	EXISTING CIRCUIT RACEWAY TO REMAIN
	EXISTING CIRCUIT RACEWAY TO BE REMOVED (DEMO)
	RACEWAY DROP (DOWN)
	RACEWAY RISE (UP)
	CONCEALED ACCESSIBLE JUNCTION BOX
	EMERGENCY CIRCUIT JUNCTION BOX
	PULL BOX
	CIRCUITTING
	CIRCUIT IDENTIFIER CIRCUIT NUMBERS PANELBOARD NAME
	COMMUNICATIONS RACEWAY HOMERUN
	CABLE TRAY
	FIRE STOP AT RATED WALLS

## OUTLETS and DEVICES

<b>KEYS</b>	RECEPTACLE SCHEDULE KEY - REFER TO SCHEDULE
A,B,C	ARCING FAULT INTERRUPTER TYPE
AFI	MOUNTING HEIGHT INCHES AFF OR AFG TO OUTLET CENTER
+16	GROUND FAULT INTERRUPTER TYPE
GFI	WEATHERPROOF IN-USE COVER
IUC	WEATHER RESISTANT DEVICE
WR	WEATHERPROOF COVER
WP	WEATHERPROOF COVER
	FLUSH WALL OUTLET
	SIMPLEX RCP
	DUPLEX RCP
	DUPLEX RCP GFI
	DOUBLE DUPLEX RCP
	SPLIT WIRED DUPLEX RCP
	FLUSH FLOOR BOX w/ DUPLEX RCP
	RECEPTACLE AS KEYED
	WP OR FD SURFACE OUTLET
	FLUSH CLOCK RCP
	TELE/DATA OUTLET
	VOICE PORTS DATA PORTS
	FLUSH FLOOR BOX FOR COMMUNICATIONS
	RECESSED COMBO DUPLEX RCP AND VIDEO PORTS
	FLUSH FLOOR BOX w/ DOUBLE DUPLEX RCP AND COMM PORTS
	VOICE PORTS DATA PORTS
	FLOOR DUCT, J-BOX, PRESETS, AND ACTIVATION
	ACTIVATION
	PRESET (DO NOT REMOVE MUD CAP)
	J-BOX w/ FLUSH COVER

## SWITCHES

	SNAP SWITCH
	TIME SWITCH
	OCCUPANCY SENSOR
<b>KEYS</b>	
2	TWO POLE
3	THREE-WAY
3P	THREE POLE
4	FOUR-WAY
A	DIGITAL PROGRAMMABLE 7-DAY ASTRONOMIC
D	WALL BOX DIMMER
K	KEY OPERATED
P	PILOT LIGHT
P*	PILOT LIGHT LOCATOR
C	SPDT MOMENTARY CENTER OFF
M	OCCUPANCY SENSOR
T	MANUAL MOTOR STARTER
V	VACANCY SENSOR

## LIGHTING

	TROFFER
	SWITCH LEGS
	LUMINAIRE SCHEDULE KEY
	SHADING INDICATES ONE DRIVER/BALLAST UNSWITCHED FOR NIGHT LIGHT
	CLG SURFACE or PENDANT MTD
	CHANNEL MTD
	WALL SURFACE MTD FLUORESCENT
	MOUNTING HEIGHT TO OUTLET CENTER
	CLG or SOFFIT RECESSED
	LAY-IN CLG RECESSED
	CLG SURFACE or PENDANT MTD
	WALL SURFACE MTD
	SURFACE MTD TRACK
	SURFACE MTD LED RIBBON IN TRACK
	CLG MTD EXIT LUMINAIRE
	SHADING INDICATES FACES
	ARROWS INDICATE DIRECTIONAL CHEVRONS
	WALL MTD EXIT LUMINAIRE

## EQUIPMENT

	MOTOR
	DISCONNECT SWITCH - NON-FUSED OR MCS
	DISCONNECT SWITCH - FUSED or CB or MCP
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT AND STARTER
	LIGHTING CONTACTOR
	AUTOMATIC DOOR OPERATOR
	FIRE/SMOKE DAMPER
	VARIABLE FREQUENCY DRIVE
	VARIABLE AIR VOLUME UNIT

## DISTRIBUTION DIAGRAMS

	CIRCUIT BREAKER, 200-AMP 3-POLE
	CIRCUIT BREAKER w/ SHUNT TRIP
	CIRCUIT SCHEDULE IDENTIFIER
	CURRENT TRANSFORMERS (3)
	FUSES, 100-AMP
	GROUND CONNECTION POINT
	METERING DEVICE
	A AMPERE METER
	V VOLT METER
	Q WATT-HOUR METER
	VR VAR METER
	W WATT METER
	AS PHASE SELECTOR SWITCH
	POTENTIAL TRANSFORMER
	SWITCH, 200 AMP
	POWER TRANSFORMER
	AMPS SHORT-CIRCUIT CURRENT

## SECURITY and ACCESS

	SECURITY SYSTEM DEVICE
	C OUTLET FOR CAMERA
	G GLASS BREAK DETECTOR
	K KEYPAD
	M MOTION SENSOR
	R CARD READER
	S FLUSH MAGNETIC DOOR SWITCH
	SS SURFACE MAGNETIC DOOR SWITCH
	T OUTLET FOR VIDEO MONITOR
	V OUTLET FOR VIDEO RECORDER
	ACCESS DOOR CONTROLLER
	AC ACCESS CONTROL CIRCUIT
	SE SECURITY SYSTEM CIRCUIT

## FIRE ALARM

	WALL MTD STROBE
	WALL MTD HORN/STROBE
	WALL MTD MANUAL PULL STATION
	CLG MTD HEAT DETECTOR
	CLG MTD SMOKE DETECTOR
	CLG MTD STROBE
	SYSTEM DEVICE
	DD DUCT SMOKE DETECTOR
	ST DUCT DETECTOR TEST STATION
	DH ELECTROMAGNETIC DOOR HOLDER
	FS SPRINKLER ZONE FLOW SWITCH
	TS SPRINKLER VALVE TAMPER SWITCH
	M MONITOR MODULE
	R RELAY CONTROL MODULE
	SYSTEM PANEL OR CABINET
	FACP CONTROL PANEL
	RAP REMOTE ANNUNCIATOR PANEL
	FATC TERMINAL CABINET
	APS NOTIFICATION APPLIANCE AUX POWER SUPPLY
	FIRE ALARM SYSTEM CIRCUITS
	FA FIRE ALARM SYSTEM CIRCUITS
	WIRING MARKS INDICATE (L to R):
	24 VDC POWER CCT
	SIGNAL LOOP CCT
	NOTIFICATION APPLIANCE CCT
	INITIATING CCT
	DOOR HOLDER POWER CCT
	FIRE DOOR RELEASE OR MOTOR CONTROL CCT
	2#14 AWG SPARE
	1 TSP RS-485
	2 TSP RS-232

## COMMUNICATION and SIGNAL

	SOUND SYSTEM DEVICE
	A BUZZER
	B BELL
	C CALL SWITCH
	H CHIME
	L ZONE LOUDSPEAKER
	M MICROPHONE INPUT JACK
	P CALL LIGHT
	R RELAY
	T TRANSFORMER
	V VOLUME CONTROL
	COMBINED FLUSH WALL CLOCK and SPEAKER UNIT
	SEALED STUB THROUGH WALL ABOVE CLG
	LOCATION FOR VIDEO PROJECTOR
	LOCATION FOR WIRELESS ACCESS POINT
	IC INTERCOM SYSTEM
	SN SOUND (AUDIO) SYSTEM
	TV TELEVISION (VIDEO) SYSTEM
	DA COMPUTER NETWORK (LAN) SYSTEM
	TE TELEPHONE (VOICE) SYSTEM
	BL BELL ANNUNCIATOR SYSTEM
	CK CLOCK SYSTEM

## NAMING CONVENTION

SYSTEM NUMBER - SERVICE or MAIN SWITCHBOARD NUMBER (NOT USED FOR SMALL SYSTEMS, CONTROLS, or CONTACTORS)	
EQUIPMENT DESCRIPTION	MS MAIN SWITCH BOARD SERVICE EQUIP
DB DIMMING BALLAST CABINET	PB PANEL BOARD or LOAD CENTER
DR DISTRIBUTION PANEL BOARD	PQ PAD-MTD METERING
DR DIMMER RACK or PANEL	PS PAD-MTD SWITCH
DS DISTRIBUTION SWITCH BOARD	PC PAD-MTD TRANSFORMER
EB EMERGENCY LTG BATT/INVERTER	RC RELAY CABINET
EG STAND-BY ENGINE-GENERATOR	SP SURGE PROTECTION
LC LTG CONTROLS CABINET	TS TRANSFER SWITCH
MC MOTOR CONTROL CENTER	XF DRY TYPE TRANSFORMER
MP MAIN PANEL BOARD SERVICE EQUIP	
MAIN SWITCHBOARD CIRCUIT NUMBER (NOT USED FOR SMALL SYSTEMS, CONTROLS, or CONTACTORS) - NOT APPLICABLE	
VOLTAGE CODE	
L 480/277 P 208/120 or 240/120 - NOT APPLICABLE	
SEQUENTIAL EQUIPMENT IDENTIFIER	

## ABBREVIATIONS

A AMPERE	LT LIQUID-TIGHT
AC ABOVE COUNTER or ALTERNATING CURRENT	LTG LIGHTING
AFB ABOVE FINISH FLOOR	MAX MAXIMUM
AFG ABOVE FINISH GRADE	MBJ MAIN BONDING JUMPER
AFI ARC FLASH INTERRUPT	MCC MOTOR CONTROL CENTER
AHJ AUTHORITY HAVING JURISDICTION	MCM THOUSAND CIRCULAR MILS
AIC AMPS INTERRUPTING CAPACITY	MDC MAIN DISTRIBUTION CENTER
ALT ALTERNATE	MH METAL HALIDE
BAS BUILDING AUTOMATION SYSTEM	MIN MINIMUM
BFG BELOW FINISH GRADE	MLO MAIN LUGS ONLY
C CONDUIT	MTD MOUNTED
CB CIRCUIT BREAKER	NC NORMALLY CLOSED
CCT CIRCUIT	NEM NATION ELECTRICAL CODE
CLG CEILING	NECA NATIONAL ELECTRICAL
CJ COPPER	NEMA MANUFACTURER'S ASSOC.
DN DOWN	NIC NOT IN CONTRACT
DWG DRAWING	NO NORMALLY OPEN
EGC EQP GROUNDING CONDUCTOR	NTS NOT TO SCALE
ELE ELECTRICAL	OC ON CENTER
EMT ELECTRICAL METALLIC TUBING	P PHASE, POLE
EQP EQUIPMENT	PB PULL BOX
EXT EXTERIOR	PNL PANEL BOARD
FLEX FLEXIBLE CONDUIT	PPC POLYESTER POWDER COAT
FLU FLUORESCENT	PROV PROVISION
FSD FIRE-SMOKE DAMPER	PVC POLYVINYL CHLORIDE
FT FEET	RCP RECEPTACLE
FNVR FULL-VOLTAGE NON-REVERSING	RTE REQUEST TO EXIT
G,GND GROUND	SE SERVICE EQUIPMENT
GA GAUGE	SPD SURGE PROTECTION DEVICE
GEC GND ELECTRODE CONDUCTOR	SPEC SPECIFICATIONS
GFI GND FAULT INTERRUPT	SQ SQUARE
GRC GALVANIZED RIGID CONDUIT	S/S STAINLESS STEEL
HID HIGH INTENSITY DISCHARGE	TB TELEPHONE EQUIPMENT BOARD
HOA HAND-OFF-AUTO	TEL TELEPHONE
HP HORSEPOWER	TTB TELEPHONE TERMINAL BOARD
HPS HIGH-PRESSURE SODIUM	TV TELEVISION
IN INCH	TYP TYPICAL
INC INCANDESCENT	UG UNDERGROUND
INT INTERIOR	UL UNDERWRITER'S LABORATORIES
ISP INTERNET SERVICE PROVIDER	UTR UP THROUGH ROOF
IUC IN-USE COVER	V VOLT
JB JUNCTION BOX	VAV VARIABLE AIR VOLUME
KV KILOVOLT	VFD VARIABLE FREQUENCY DRIVE
KVA KILOVOLT-AMPERE	W WIRE
KW KILOWATT	w/o WITHOUT
LED LIGHT EMITTING DIODE	WP WEATHERPROOF
	XF TRANSFORMER

# GENERAL NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED

THIS PLAN MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY

- A ADOBE ACROBAT® READER 8.0 OR LATER OR OTHER VIEWER IS REQUIRED TO VIEW ALL PORTIONS OF THESE DOCUMENTS AS A PDF
- B THE FOLLOWING NOTES APPLY TO ALL ELECTRICAL WORK INCLUDED IN THE CONTRACT UNLESS NOTED OTHERWISE
- C THE WORD PROVIDE SHALL MEAN TO FURNISH AND INSTALL - EXCEPTIONS SHALL BE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS
- D DO NOT SCALE THE DRAWINGS TO DETERMINE THE LOCATION OF LUMINAIRES, OUTLETS, OR EQUIPMENT - REFER TO THE OTHER DRAWINGS IN THIS SET (ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ETC) AND FIELD MEASUREMENTS FOR ALL PROJECT DIMENSIONS
- E COORDINATE ALL SYSTEM DOWNTIME AND DISCONNECTION WITH THE OWNER'S REPRESENTATIVE - ALLOW A MINIMUM 2-DAY NOTICE
- F ALL EXPOSED CONDUIT, FITTINGS, BOXES, HANGERS, SUPPORTS, CLIPS, ETC IN FINISHED AND EXTERIOR AREAS SHALL BE PAINTED REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
- G ALL PROTECTIVE DEVICES IN THIS PROJECT HAVE INTERRUPTING RATINGS GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LOCATION OF THE DEVICE - "ENGINEERED SERIES COMBINATION SYSTEM" OR "TESTED SERIES COMBINATION SYSTEM" DESIGN IS NOT USED FOR THIS PROJECT
- H SPACES FOR INFORMATION TECHNOLOGY SYSTEMS AND OTHER COMMUNICATION SYSTEMS IN THIS PROJECT COMPLY WITH CHAPTERS 1 THROUGH 4 OF THE NEC - NEC ARTICLE 645 "INFORMATION TECHNOLOGY EQUIPMENT" IS NOT UTILIZED FOR THIS PROJECT
- I THE LOCATION AND ROUTING OF EXISTING ELECTRICAL ITEMS ARE SHOWN APPROXIMATE BASED ON THE BEST AVAILABLE INFORMATION - ACTUAL LOCATIONS AND CIRCUIT ROUTING MAY BE DIFFERENT - ALL LOCATIONS AND ROUTING OF EXISTING ELECTRICAL ITEMS AND CIRCUITS MUST BE FIELD VERIFIED BY THE CONTRACTOR - CIRCUIT NUMBERS SHOWN ARE FROM THE RECORD DRAWINGS AND HAVE NOT BEEN VERIFIED
- J EXISTING ELECTRICAL ITEMS THAT ARE TO REMAIN ARE SHOWN IN BLUE COLOR - EXISTING ELECTRICAL ITEMS THAT ARE TO BE REMOVED ARE SHOWN IN RED COLOR - EXISTING ELECTRICAL ITEMS THAT ARE NOT INVOLVED WITH THE WORK OF THIS CONTRACT MAY NOT BE SHOWN
- K EXISTING ELECTRICAL ITEMS THAT ARE TO REMAIN OR BE RELOCATED ARE SHOWN AS TYPE "X" AND MAY BE KEY NOTED
- L EXPOSED, CONCEALED, AND BURIED RACEWAY ARE SHOWN BY DRAWING LINE TYPE - REFER TO THE ELECTRICAL SYMBOL LEGEND FOR LINE TYPE DEFINITIONS
- M REFER TO DEMOLITION PLANS IN THIS SET OF DRAWINGS FOR ELECTRICAL WORK NOT SHOWN ON THE ELECTRICAL DRAWING SHEETS

# ELECTRICAL DRAWINGS

No.	TITLE
E001	GENERAL INFORMATION
E101	TYP PUMP STATION PLANS
E102	UPPER RESERVOIR PARTIAL SITE PLAN
E501	DIAGRAMS AND DETAILS
E601	SCHEDULES
E701	INSTRUMENTATION PROCESS DIAGRAM
E702	INSTRUMENTATION I/O SCHEDULE
E703	INSTRUMENTATION I/O SCHEDULE
E711	INSTRUMENTATION DIAGRAM - PUMP STATION 1
E712	INSTRUMENTATION DIAGRAM - PUMP STATIONS 2, 3, AND 4
E713	INSTRUMENTATION DIAGRAM - UPPER RESERVOIR
E751	INSTRUMENTATION DETAILS
E761	INSTRUMENTATION SCHEDULES

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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3/11/2026

3/11/2026  
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REGISTERED PROFESSIONAL ENGINEER  
SEAL

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

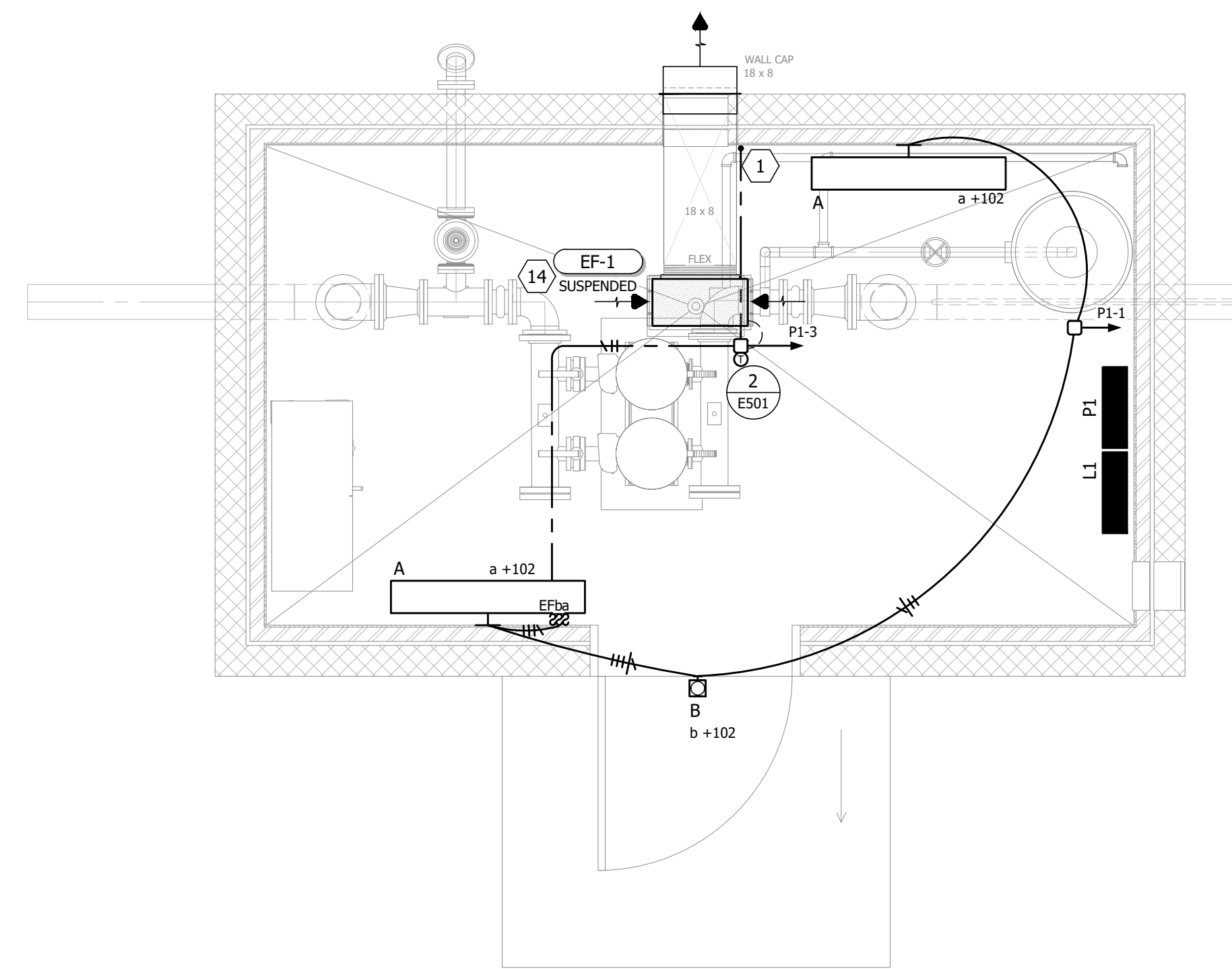
PROJECT NAME	BY
DESCRIPTION	DATE
REV.	DATE

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

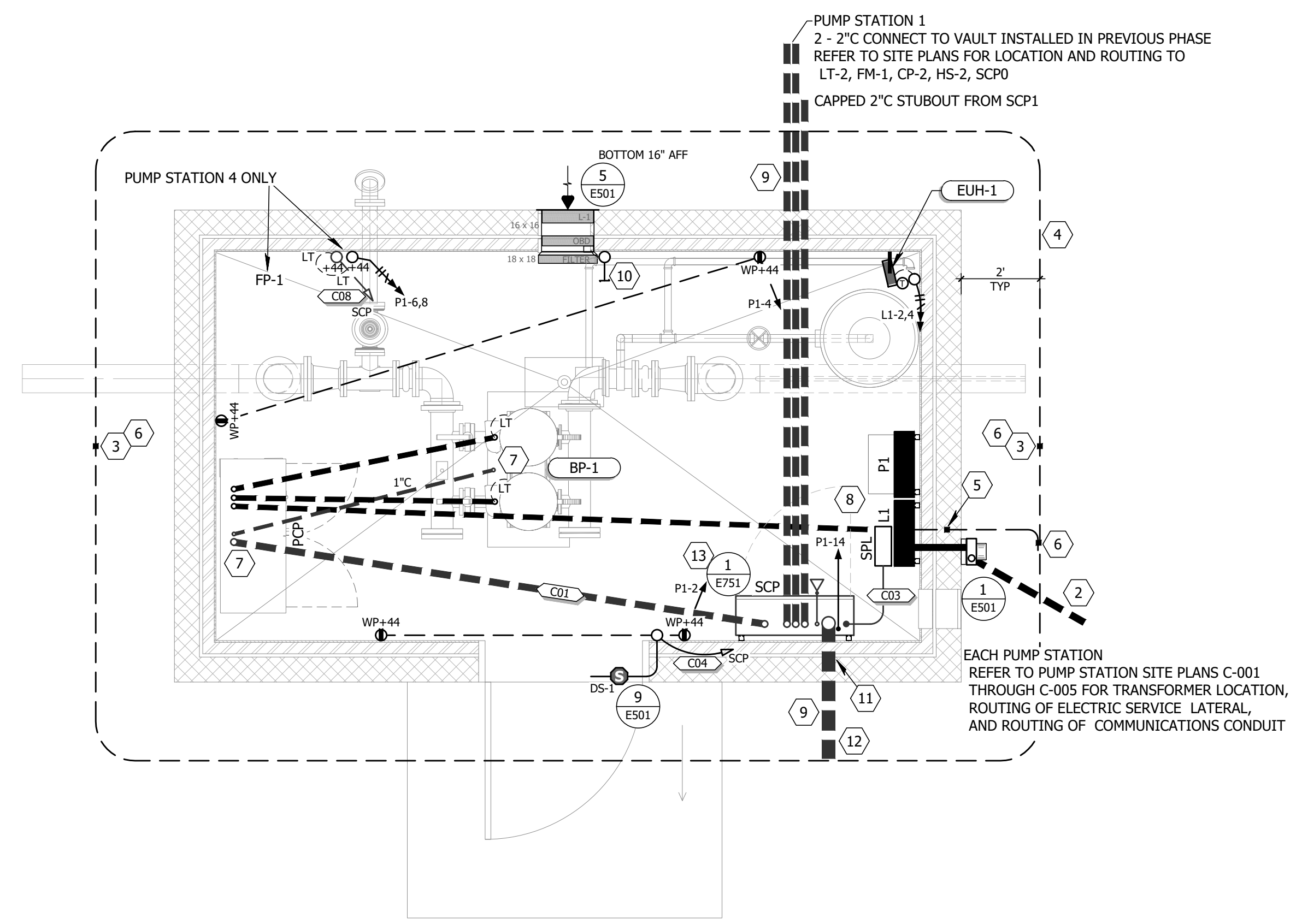
SHEET TITLE  
**ELECTRICAL GENERAL INFORMATION**

SHEET NO:  
**E001**

008EAFP-1.DWG



**1 LIGHTING PLAN**  
SCALE: 3/8" = 1'-0"



**2 POWER AND COMM PLAN**  
SCALE: 3/8" = 1'-0"

**GENERAL SHEET NOTES**

- THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED
- THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY
- REFER TO GENERAL NOTES ON DRAWING E001
- A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED LUMINAIRES AND DEVICES
- B SHADED LUMINAIRE SYMBOLS INDICATE LUMINAIRES THAT SHALL HAVE A SINGLE-LAMP BALLAST OR DRIVER, A SEPARATE EMERGENCY LAMP, OR THE ONLY LAMP OR DRIVER CONNECTED TO THE UNSWITCHED CIRCUIT FOR NIGHT LIGHT OR EMERGENCY LTG
- C ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 CONDUCTORS AND 3/4" C UNLESS OTHERWISE NOTED
- D BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURRENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER
- E ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS
- F PANEL BOARDS, CABINETS, AND ELECTRICAL EQUIPMENT ARE SHOWN ON THE DRAWINGS WITH THE IDENTIFYING TEXT ON THE FRONT SIDE - THE EQUIPMENT FRONT IS TOWARD THE TEXT
- G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS
- H ALL PANEL BOARD SIGNAGE, NAMEPLATES, CIRCUIT NUMBERS, AND DIRECTORIES IN FINISHED AREAS SHALL BE LOCATED BEHIND THE TRIM DOOR WHEN CLOSED
- I ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE
- J ALL RACEWAY FOR TELEPHONE AND COMPUTER NETWORKS SHALL BE 3/4" MIN
- K NEW COMMUNICATION AND SECURITY OUTLETS SHALL BE 4"x4"x2+1/8" NOMINAL BOXES w/ 1-GANG DEVICE RINGS (VERTICAL) AND 3/4" C STUB-OUT w/ BUSHING ABOVE ACCESSIBLE CLG UNLESS OTHERWISE NOTED
- L MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

**SHEET KEYNOTES**

- 1 REFER TO POWER PLAN FOR CONTINUATION
- 2 PROVIDE SERVICE CONDUCTORS IN CONDUIT 36" BELOW FINISH GRADE W/ WARNING TAPE TO TRANSFORMER SECONDARY
- 3 DRIVEN GND ROD W/ TOP 12" BELOW FINISH GRADE
- 4 PROVIDE #4/0 AWG STRANDED BARE CU CONDUCTOR 12" BELOW FINISH GRADE
- 5 BOND GND TO FOUNDATION FOOTING STEEL
- 6 BOND GND ELECTRODE CONDUCTOR TO LOOP CONDUCTOR
- 7 COORDINATE STUB-UP LOCATION W/ THE EQUIPMENT INSTALLER
- 8 MAINTAIN CODE REQUIRED WORKING AND CLEARANCE SPACE ABOVE AND IN FRONT OF ELEC EQP - NO PIPE OR DUCT PERMITTED ABOVE ELEC EQP
- 9 DEPTH OF ALL CONDUIT TO BE BELOW FOUNDATION FOOTING
- 10 REFER TO LTG PLAN FOR CONTINUATION
- 11 PROVIDE 4' RADIUS ELBOWS FOR FIBER-OPTIC BUNDLE
- 12 PROVIDE 4" C PVC 36" MIN BELOW FINISH GRADE
- 13 SCADA CONTROL PANEL FURNISHED BY CONTROLS INTEGRATOR
- 14 LOCATE TOP OF FAN CLOSE TO BOTTOM OF ROOF TRUSSES



NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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3/11/2026

3/11/2026  
NEW MEXICO  
9726  
PAUL B. L. WETTER  
REGISTERED PROFESSIONAL ENGINEER

LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL PLANS  
TYP PUMP STATION**

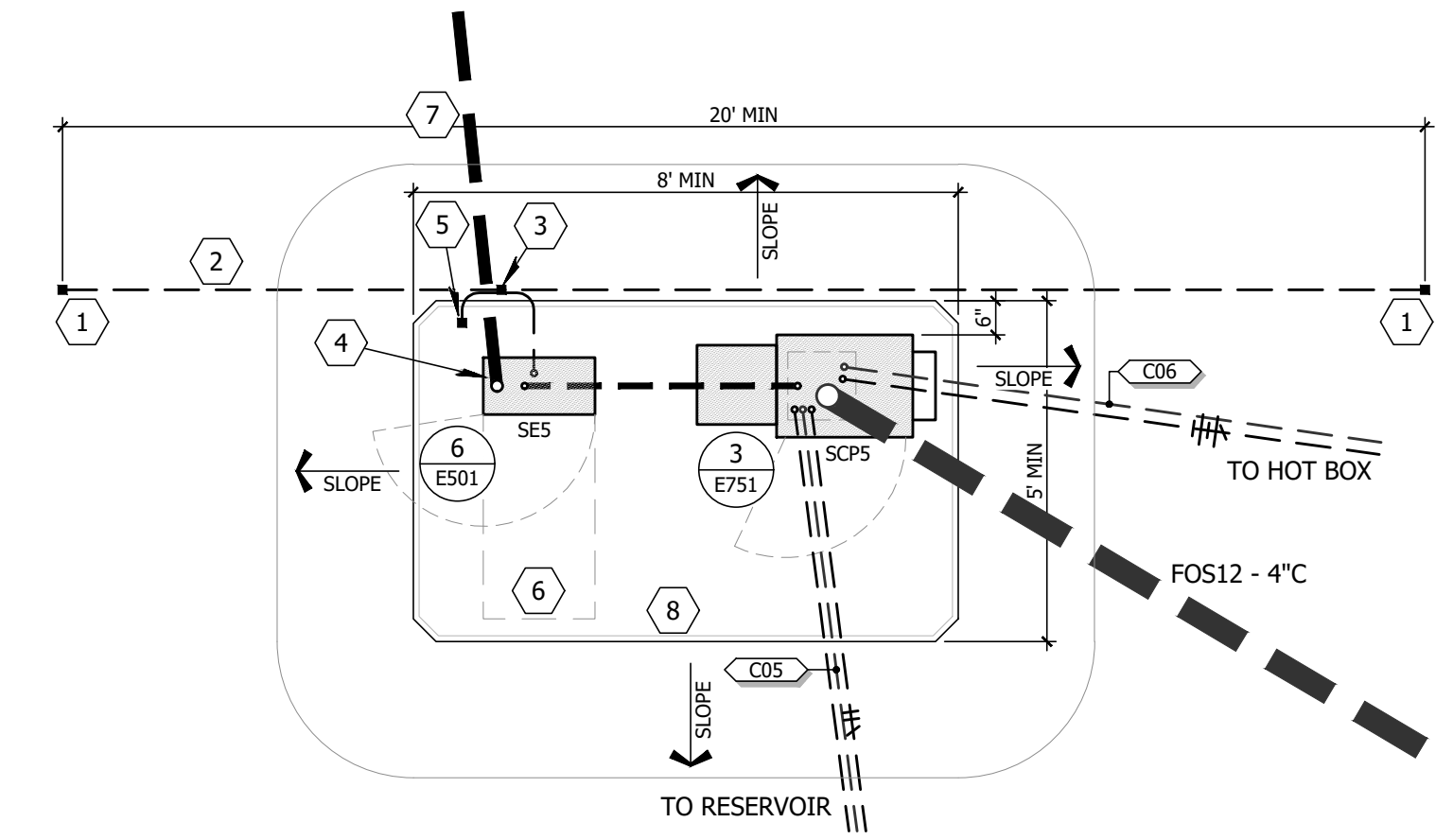
SHEET NO:  
**E101**

### GENERAL SHEET NOTES

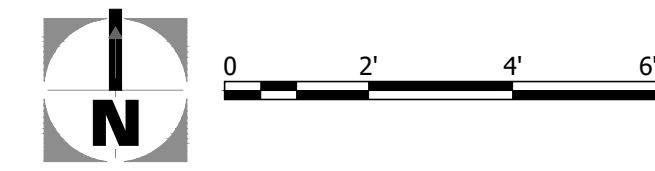
- THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED
- THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY
- REFER TO GENERAL NOTES ON DRAWING E001
- A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED LUMINAIRES AND DEVICES
  - B SHADED LUMINAIRE SYMBOLS INDICATE LUMINAIRES THAT SHALL HAVE A SINGLE-LAMP BALLAST OR DRIVER, A SEPARATE EMERGENCY LAMP, OR THE ONLY LAMP OR DRIVER CONNECTED TO THE UNSWITCHED CIRCUIT FOR NIGHT LIGHT OR EMERGENCY LTG
  - C ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 CONDUCTORS AND 3/4" C UNLESS OTHERWISE NOTED
  - D BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURRENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER
  - E ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS
  - F PANEL BOARDS, CABINETS, AND ELECTRICAL EQUIPMENT ARE SHOWN ON THE DRAWINGS WITH THE IDENTIFYING TEXT ON THE FRONT SIDE - THE EQUIPMENT FRONT IS TOWARD THE TEXT
  - G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS
  - H ALL PANEL BOARD SIGNAGE, NAMEPLATES, CIRCUIT NUMBERS, AND DIRECTORIES IN FINISHED AREAS SHALL BE LOCATED BEHIND THE TRIM DOOR WHEN CLOSED
  - I ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE
  - J ALL RACEWAY FOR TELEPHONE AND COMPUTER NETWORKS SHALL BE 3/4" MIN
  - K NEW COMMUNICATION AND SECURITY OUTLETS SHALL BE 4"x4"x2+1/8" NOMINAL BOXES w/ 1-GANG DEVICE RINGS (VERTICAL) AND 3/4" C STUB-OUT w/ BUSHING ABOVE ACCESSIBLE CLG UNLESS OTHERWISE NOTED
  - L MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

### SHEET KEYNOTES

- 1 DRIVEN GND ROD W/ TOP 12" BELOW FINISH GRADE
- 2 PROVIDE #4/0 AWG STRANDED BARE CU CONDUCTOR 12" BELOW FINISH GRADE
- 3 BOND GND ELECTRODE CONDUCTOR TO LOOP CONDUCTOR
- 4 PROVIDE MAIN N-G BOND PER NEC
- 5 BOND TO REINFORCING STEEL IN SLAB
- 6 MAINTAIN CODE REQUIRED WORKING AND CLEARANCE SPACE ABOVE AND IN FRONT OF ELEC EQP - NO PIPE OR DUCT PERMITTED ABOVE ELEC EQP
- 7 PROVIDE SERVICE LATERAL 36" BELOW FINISH GRADE PER UTILITY COMPANY REQUIREMENTS
- 8 PROVIDE REINFORCED CONCRETE SLAB AT EQUIPMENT



**1 PARTIAL SITE PLAN**  
SCALE: 3/8" = 1'-0"



NOTICE OF EXTENDED PAYMENT PROVISION:  
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**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03

DESIGNED BY: DLW

DRAWN BY: DLW

CHECKED BY: DLW

DATE: 3/11/2026

SHEET TITLE

**ELECTRICAL  
SITE PLAN  
UPPER RESERVOIR**

SHEET NO:

**E102**

# FEEDER SCHEDULE

FEEDER NAME	CONDUIT COUNT	PHASE		NEUTRAL		GROUND		P & N TYPE	INSULATION TYPE	CONDUIT		SCC AMPS	VDROP MAX %	ARC FLASH		NOTES
		QUAN	SIZE	QUAN	SIZE	QUAN	SIZE			SIZE IN	FILL %			ENERGY <sup>1</sup>	BOUNDARY <sup>2</sup>	
L1	1	3	3/0	1	3/0	1	6	CU	THHN/THWN-2	2	31.7	6,116	0.03	1.19	18.0	
XF1	1	2	4			1	8	CU	THHN/THWN-2	3/4	36.5	5,825	0.00	1.13	17.4	
P1	1	2	1	1	1	1	8	CU	THHN/THWN-2	1+1/4	32.2	1,813	0.02	0.36	8.6	
PCP	1	3	1/0			1	6	CU	THHN/THWN-2	1+1/2	28.4	5,943	0.02	1.15	17.6	
SE5	1	3	2	1	2			CU	THHN/THWN-2	1+1/4	30.0	13,673	0.01	26.81	119.8	
5XF1	1	2	10			1	12	CU	THHN/THWN-2	1	5.4	8,685	0.00	0.56	11.4	
SCP5	1	2	8	1	8	1	10	CU	THHN/THWN-2	1	14.4	689	0.02	0.10	4.0	

GENERAL NOTES  
 CONDUIT SIZES ARE MINIMUM GRC - CONDUCTOR SIZES ARE MINIMUM CU THHN/THWN-2 UNLESS INDICATED OTHERWISE  
 SPARE CONDUITS ARE NOT INCLUDED IN THIS SCHEDULE - REFER TO PLAN KEYED NOTES  
 FAULT CURRENT (SCC) AND ARC FLASH CALCULATED AT INDICATED EQUIPMENT LINE TERMINALS  
<sup>1</sup> cal/cm<sup>2</sup> at 18-INCHES  
<sup>2</sup> INCHES FROM ARC AT 1.2 cal/cm<sup>2</sup>

NUMBERED NOTES  
 1 EXISTING FEEDER  
 2 ISOLATED GROUND INCLUDED

# LOAD SUMMARY

FEEDER NAME	LOAD AMPS				FEEDER %		SF	W/SF	
	ALLOWED <sup>1</sup>	CONNECTED	DEMAND	SPARE <sup>1</sup>	DEMAND	LOAD <sup>1</sup>		CONNECT	DEMAND
L1	200	159	85	115	54	43	180	593.3	315.9
XF1	85	20	20	60	100	23			
P1	130	46	46	54	100	35			
PCP	150	130	65	85	50	43			
SE5	115	15	15	100	100	13	180	30.8	30.8
5XF1	30	15	15	5	100	49			
SCP5	50	34	34	6	100	68			

<sup>1</sup> ALLOWABLE LOAD AMPS, SPARE LOAD AMPS, AND FEEDER LOAD % ARE BASED ON 75°C CONDUCTOR RATING

# GENERAL SHEET NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED  
 THIS PLAN MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
 REFER TO GENERAL NOTES ON DRAWING E001

## GROUNDING ELECTRODE CONDUCTOR SIZE

SERVICE PHASE	CONDUCTOR SIZE		MINIMUM GEC SIZE	EQUIVALENT AWG KCMIL
	CU	AL		
<=2	<=1/0		8	2 66.4
1 - 1/0	2/0 - 3/0		6	1/0 105.6
2/0 - 3/0	4/0 - 250		4	2/0 133.1
>3/0 - 350	>250 - 500		2	3/0 167.8
>350 - 600	>500 - 900		1/0	4/0 211.6
>600 - 1100	>900 - 1750		2/0	
>1100	>1750		3/0	

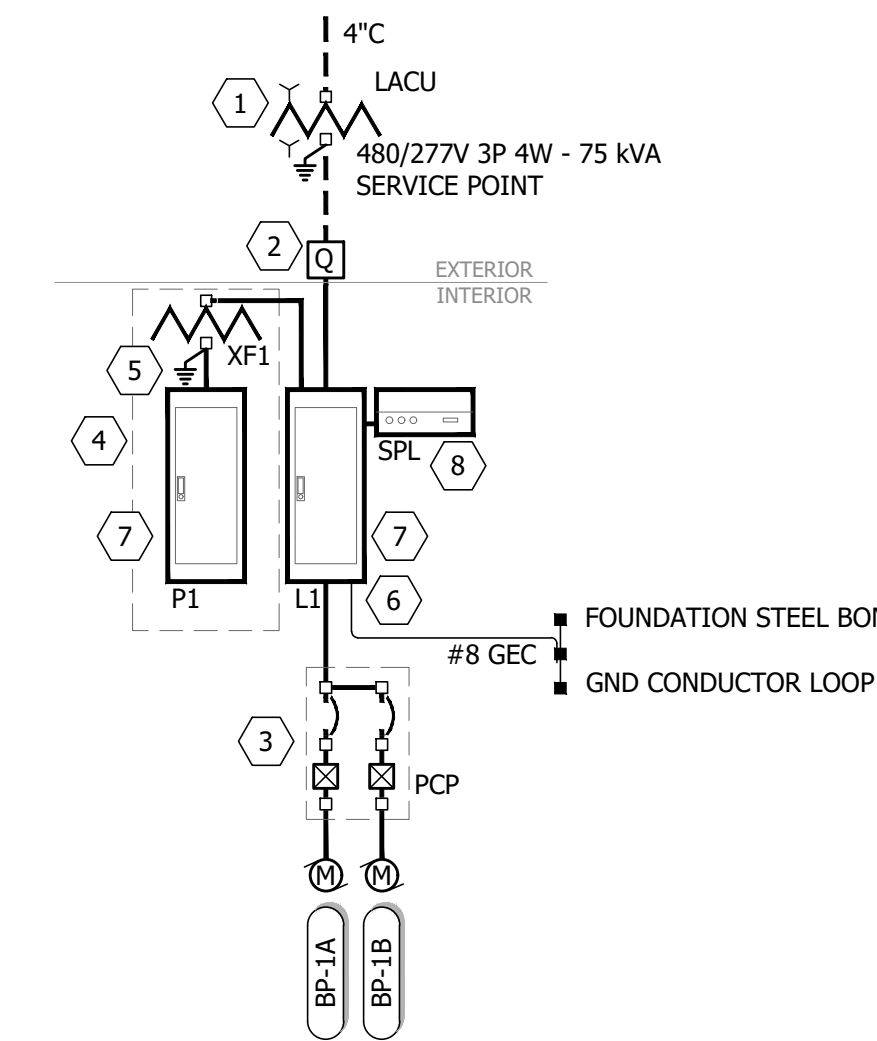
USE TOTAL CONDUCTOR AREA PER PHASE FOR PARALLEL CONDUCTORS - NEC TABLE 250.66

## BONDING LEGEND

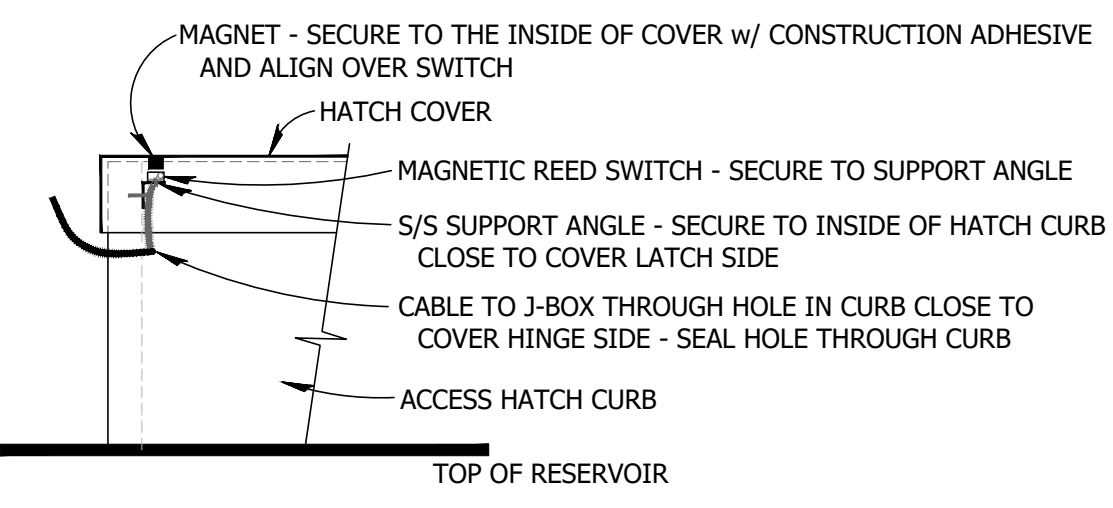
■ EXOTHERMIC WELD □ BOLTED BRONZE CLAMP

# SHEET KEY NOTES

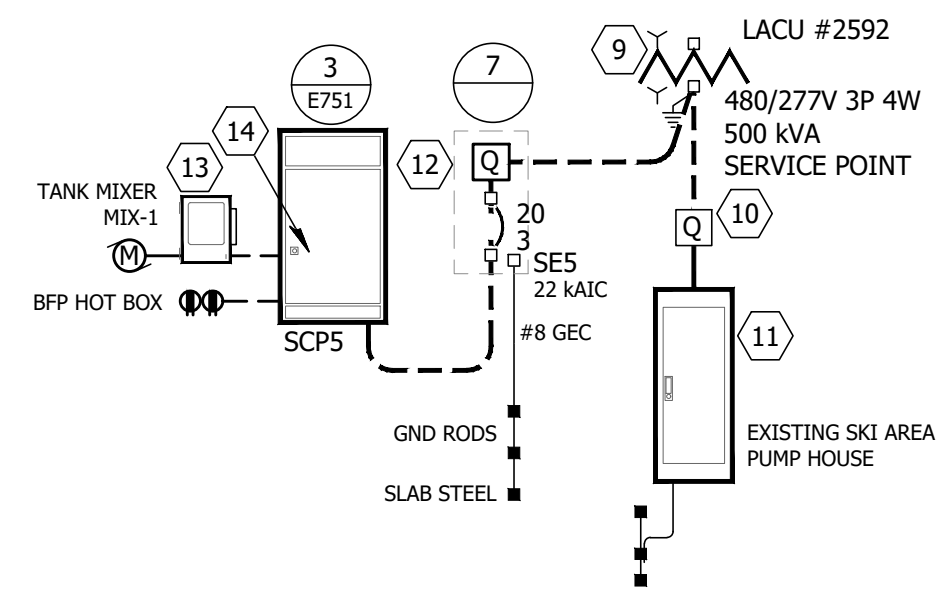
- NEW PAD-MOUNT UTILITY TRANSFORMER - REFER TO LACE SERVICE GUIDE AND CUSTOMER REPRESENTATIVE
- UTILITY METERING - PROVIDE METER BASE PER UTILITY REQUIREMENTS - 7 JAW w/ BYPASS 277/480V 200A RINGLESS
- PUMP PACKAGE CONTROL PANEL FURNISHED BY PUMP SUPPLIER
- PROVIDE MINI POWER-ZONE COMBINATION DRY-TYPE TRANSFORMER AND PANEL BOARD - 25 KVA 25 KAIC 1-PHASE 480V PRIMARY 100A2P MCB 120/240V SECONDARY 115°F RISE 24-SPACE PANEL BOARD 125A2P MCB NEMA 3R ENCLOSURE BOLT-ON BRANCH BREAKERS - SQ-D #7440-MPBZ25S40F25K OR EQUAL
- PROVIDE TRANSFORMER SECONDARY N-G BOND
- PROVIDE MAIN BONDING JUMPER BETWEEN NEUTRAL BUS AND EQUIPMENT GROUND BUS PER NEC 250-28 AT SERVICE EQUIPMENT
- REFER TO SCHEDULES FOR PANEL BOARD AND EQUIPMENT LOAD INFORMATION
- PROVIDE SURGE PROTECTION DEVICE 277/480V-3P-4W 200KA PER PHASE 320V MCOV SQ-D #SSP04XDSE20A OR EQUAL
- EXISTING PAD-MOUNTED UTILITY TRANSFORMER
- EXISTING UTILITY METER
- EXISTING SKI AREA PUMP HOUSE SERVICE EQUIPMENT AND DISTRIBUTION
- PROVIDE NEMA 3R ENCLOSED PEDESTAL METER SERVICE EQUIPMENT w/ PROVISIONS FOR THREE 3-POLE CB MIN - REFER TO LACE SERVICE GUIDE AND CUSTOMER REPRESENTATIVE
- PROVIDE 30A2P NON-FUSED NEMA 4X ENCLOSED MOTOR DISCONNECT NEAR RESERVOIR CONDUIT ENTRY - LEVITON #DS30-AX OR EQUAL
- LOCATE MIXER MOTOR CONTROLLER INSIDE CONTROL PANEL



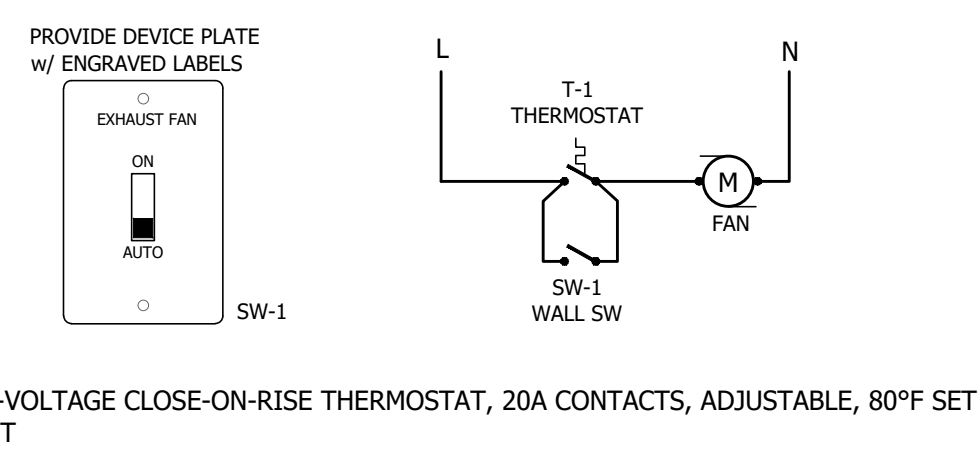
1 DIAGRAM  
 PUMP STATION SERVICE AND DISTRIBUTION  
 NO SCALE



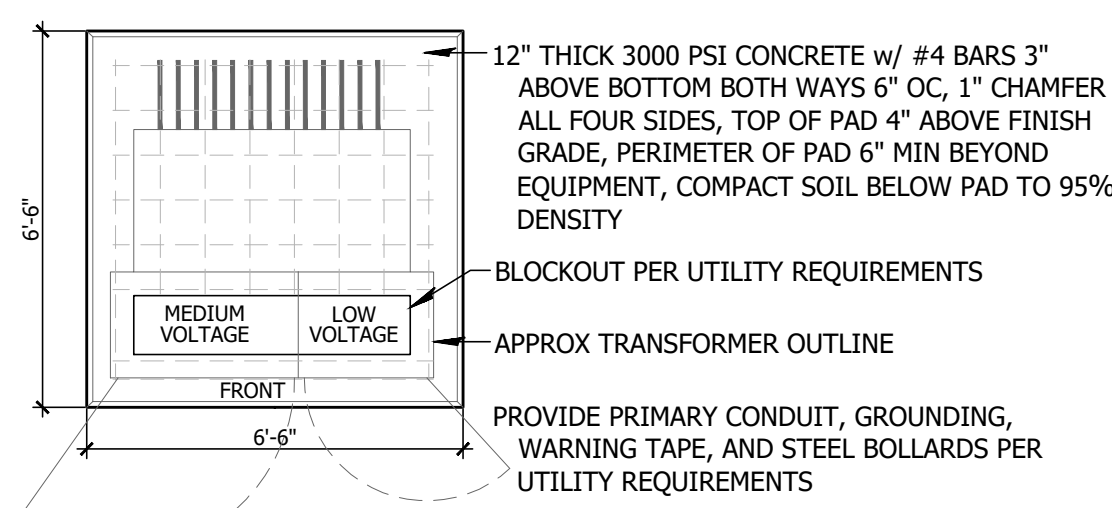
8 DETAIL  
 ACCESS HATCH SECURITY SWITCH  
 NO SCALE



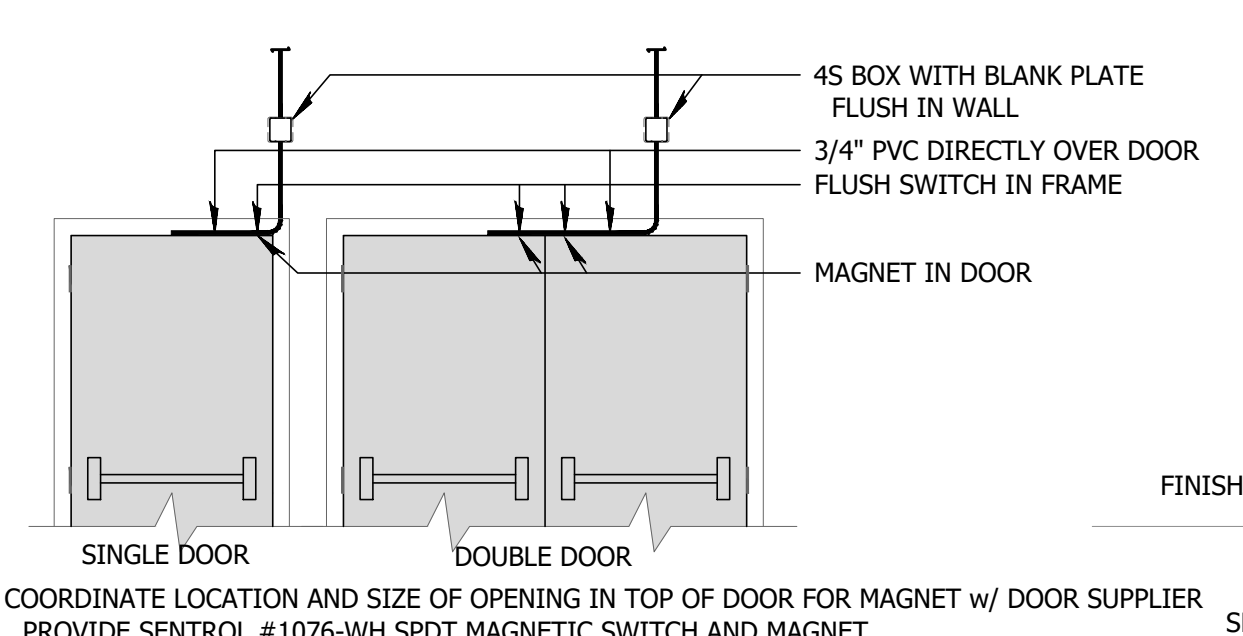
6 DIAGRAM  
 UPPER RESERVOIR DISTRIBUTION  
 NO SCALE



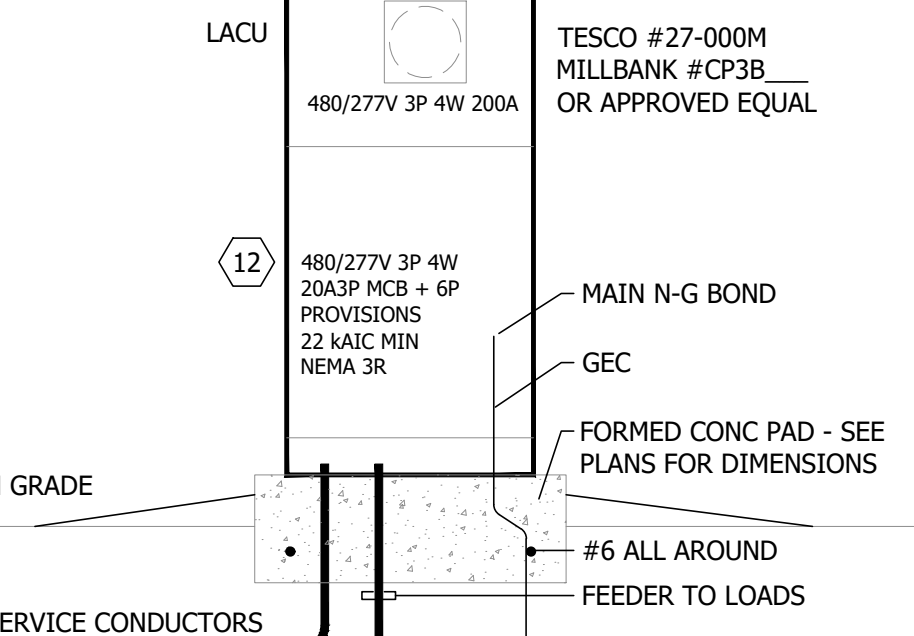
4 DIAGRAM  
 EXHAUST FAN CONTROL - AUTO/ON  
 NO SCALE



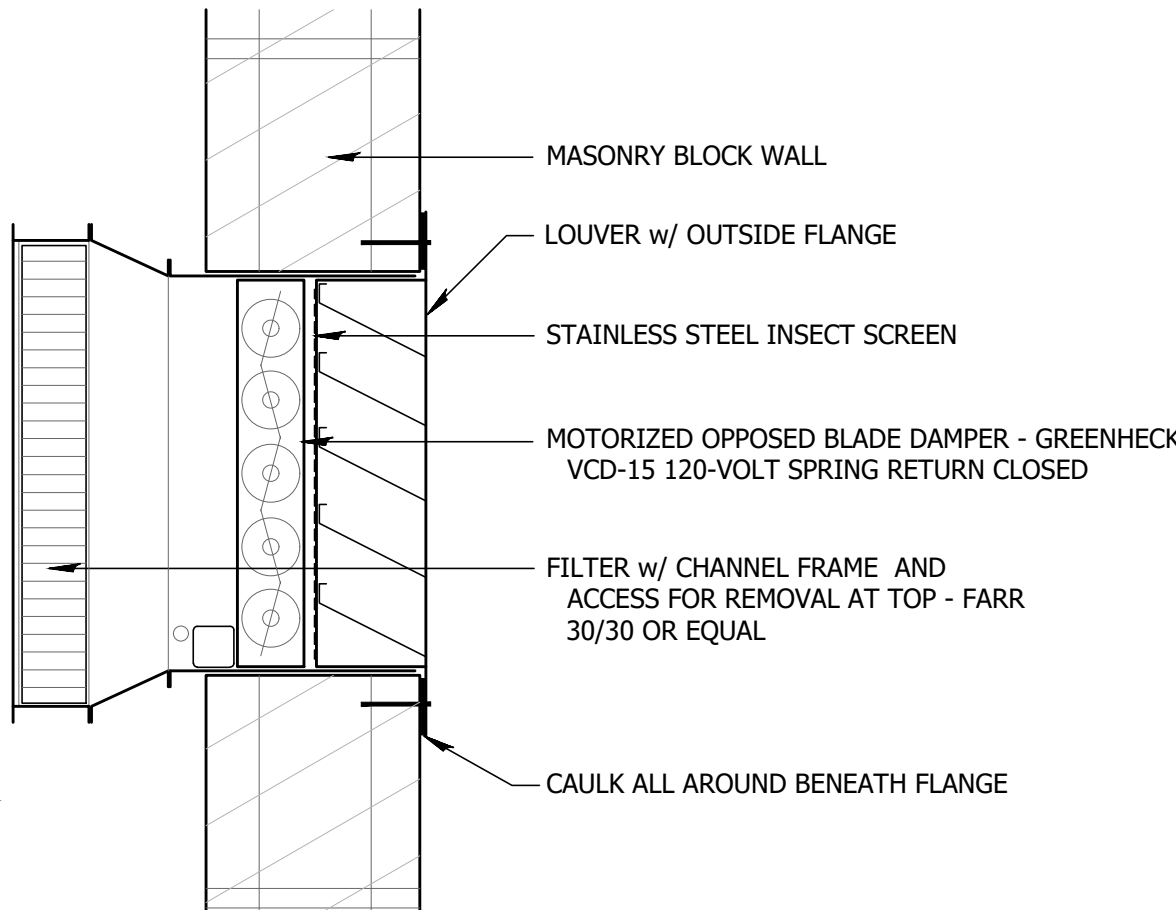
2 DETAIL  
 TRANSFORMER PAD  
 NO SCALE



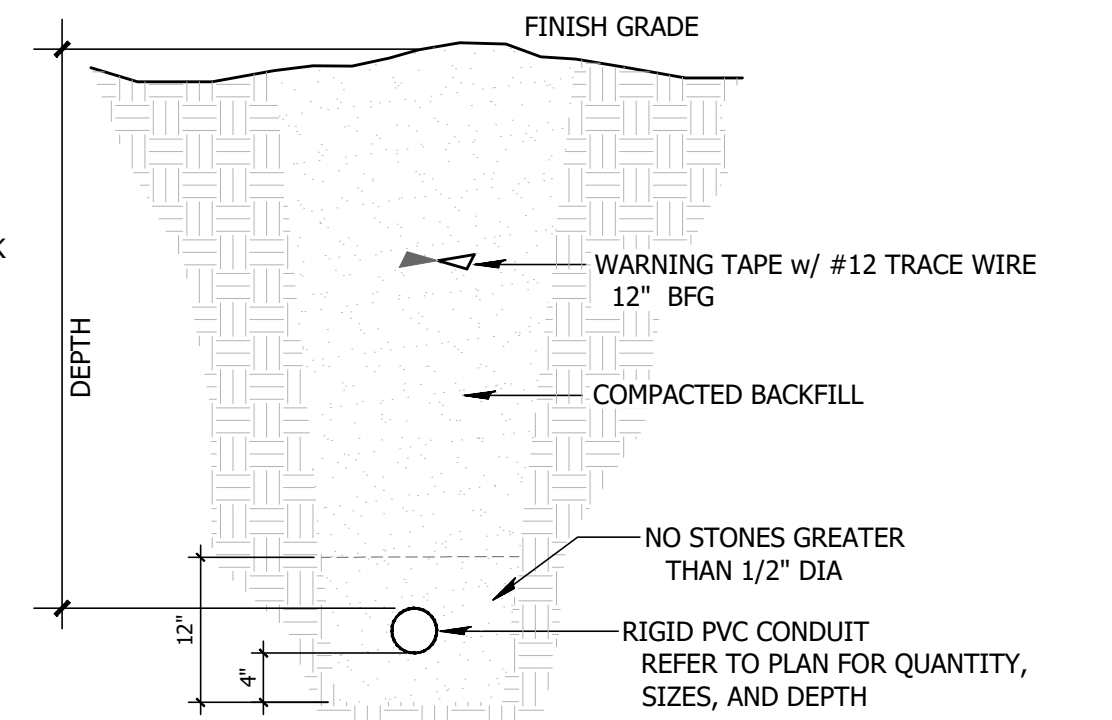
9 DETAIL  
 RECESSED DOOR SECURITY SWITCH  
 NO SCALE



7 DETAIL  
 PEDESTAL METER AND SERVICE DISCONNECT  
 NO SCALE



5 DETAIL  
 WALL LOUVER FOR VENTILATION  
 NO SCALE



3 SECTION  
 BURIED CONDUIT (NOT ENCASED)  
 NO SCALE

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 3/11/2026

3/11/2026  
**FRANKS L. WETTER**  
 NEW MEXICO  
 9726  
 REGISTERED PROFESSIONAL ENGINEER

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 DIAGRAMS  
 AND DETAILS**

SHEET NO:  
**E501**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

# UNIT HEATER SCHEDULE

KEY	DESCRIPTION	MANUFACTURER/CATALOG NO.	KW	VOLT	PHASE	NOTES
EUH-1	WALL MOUNT, 18 GA PAINTED STEEL HOUSING, ADJUSTABLE DISCHARGE LOUVERS, PLATED WIRE INTAKE GUARD, DYNAMICALLY BALANCED FAN, INTEGRAL MAGNETIC CONTACTOR, INTEGRAL ADJUSTABLE THERMOSTAT, WALL MTD SUPPORT	CHROMALOX LUH-05-43-32-40 w/ WUH-01A	5.0	480	1	

# FAN SCHEDULE

KEY	SERVICE	MANUFACTURER CATALOG NO	TYPE	DRIVE	CFM <sup>1</sup>	SONES MAX	FILTER	WALL CAP	HP/WATTS	VOLT	PHASE	WT LB	DUCT	NOTES
EF-1	EXHAUST	GREENHECK SP-A700	CABINET	DIRECT	700	4.5	F-250	WC-18X8	350 W	120	1	34	18" X 8"	

GENERAL NOTES:  
FOR EACH UNIT PROVIDE PAINTED ALUMINUM GRILLE, WASHABLE ALUMINUM MESH GRILLE FILTER, METAL CAP W/ BACKDRAFT DAMPER AND INSECT SCREEN, SEALED METAL DUCT, VIBRATION ABSORBING SUPPORTS  
INSTALL PER MANUFACTURER'S INSTRUCTIONS  
<sup>1</sup>RATED CAPACITY AT 0.25" WC

NUMBERED NOTES:

# LOUVER SCHEDULE

KEY	SERVICE	MANUFACTURER CATALOG NO	FRAME	FINISH	W X H	SF	SP *WC	EXTENDED SILL	SCREEN	FILTER RACK	DAMPER
L-1	INTAKE	CARNES FLDC	FLANGED	CLEAR ANODIZED	16"X16"	0.8	0.08	NO	S/S INSECT	2"	NO

# LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER / CATALOG NO.	LUMENS	WATTS	FINISH	VOLTS	NOTES
A	4" NOMINAL ENCLOSED AND GASKETED WALL MOUNT, PAINTED STEEL HOUSING, 45° ANGLED 0.125" RIBBED FROSTED ACRYLIC LENS, ONE-PIECE DOOR w/ PIANO HINGE, IP65 WET LOCATION	COLUMBIA / LXEM4-35HL-RFA-EU-XE45MBSS	5,630	48			
		LITHONIA / FEM-L48-6000LM-LPAFL-MD-MVOLT-G210-35-80-FEMANGBKT					
B	CUT-OFF, WALL SURFACE MTD, DIE-CAST ALUMINUM HOUSING, TEMPERED IMPACT RESISTANT CLEAR GLASS LENS, POWDER-COAT FINISH, 4000°K, UL 1598 LISTED	BEACON / TRP2-160L-50-4K8-2-UNV-BLS	7,730	56	BLACK		
		LITHONIA / WSTLED-P3-40K-VV-MVOLT-DBLXD					

GENERAL NOTES:  
LAMPS ARE LED UNLESS NOTED OTHERWISE - LAMP CODES ARE GENERAL ELECTRIC UNLESS NOTED OTHERWISE  
FINISH COLORS ARE WHITE UNLESS NOTED OTHERWISE - COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD DURING SUBMITTAL REVIEW UNLESS NOTED CUSTOM  
LUMINAIRES SHALL BE AS SPECIFIED OR APPROVED EQUAL PRIOR TO BID/ORDER  
DIMMING DRIVERS SHALL BE 0-10 Vdc 2-WIRE ELECTRONIC 100-1% DIM-TO-OFF UNLESS NOTED OTHERWISE  
COLOR TEMPERATURE SHALL BE 3500°K, CRI 85 MIN, >90% PF, <20% THD, INTEGRAL BALLAST/DRIVERS 120-277V, SINGLE CIRCUIT UNLESS NOTED OTHERWISE  
LUMENS LISTED ARE MINIMUM DELIVERED AND WATTS ARE MAXIMUM PER IESNA LM-79-08 BY INDEPENDENT TESTING LAB PHOTOMETRIC REPORT

NUMBERED NOTES:

# EQUIPMENT SCHEDULE

EQUIP KEY	DESCRIPTION	AREA	SOURCE	V	P	WIRE	MTR HP	MTR FLA	OTHER FLA	NOTE	TOTAL FLA	KVA	PF	KW	WIRE			CONDUIT SIZE	MAX PROTECTION		
															P	N	G		CB	FUSE	MCP
BP-1A,1B	BOOSTER PUMPS		PCP	480	3	2	50.00				65.0	54.0	0.87	47.0	4	--	6	1	150	150	150
EF-1	EXHAUST FAN		P1	120	1	2			3.2		3.2	0.4	0.91	0.3	12	12	12	3/4	20	20	20
EUH-1	ELEC UNIT HEATER		L1	480	1	2				10.4	10.4	5.0	1.00	5.0	12	--	12	3/4	15	15	--
FPV-1	CHLORINATOR	PS4	P1	240	1	2	7.50				40.0	9.6	0.7	6.7	8	--	8	3/4	70	60	40
MIX-1	TANK MIXER		SCP5	240	1	2	1.50				10.0	2.4	0.70	1.7	12	--	12	3/4	20	15	10

GENERAL NOTES  
CONDUIT SIZES ARE MINIMUM FOR EMT - CONDUCTOR SIZES ARE MINIMUM FOR CU  
MAX PROTECTION IS PER NEC - SEE PANEL BOARD SCHEDULES, DRAWINGS, AND PRODUCT SUBMITTALS FOR PROTECTION TO BE PROVIDED

NUMBERED NOTES  
1 SEE DRAWINGS FOR WIRE, CONDUIT, AND PROTECTION SIZES  
2 NON-CONTINUOUS LOAD  
3 ALUMINUM PHASE AND NEUTRAL CONDUCTORS  
4 HACR LOAD  
5 PROVIDE PARALLEL CONDUITS

# PANEL BOARD SCHEDULE

LOAD		CB	CCT	Φ	CCT	CB	LOAD
TYPE	DESCRIPTION	SIZE	#	SIZE	#	SIZE	DESCRIPTION
SUB	TRANSFORMER PANEL P1	80 1	1	A	2	15 1	EUH-1 UNIT HEATER
SUB		2P J	3	B	4	2P J	MEC
			5	C	6		
			7	A	8		
			9	B	10		
			11	C	12		
			13	A	14		
			15	B	16		
			17	C	18		
			19	A	20	150 1	SUB
			21	B	22	----	PCP
			23	C	24	3P J	SUB

VOLTAGE (L-L): 480  
PHASE: 3  
WIRE: 4  
MOUNTING: SURFACE  
MANUFACTURER:  
OPTIONS: B  
TOP: MCB  
BOTTOM: FTL

PANEL BOARD NAME: **L1**  
BUS RATING, Amps: 200  
MAIN BREAKER RATING, Amps: 200  
FEEDER PROTECTION, Amps:  
GROUND BUS: ISOLATED FROM NEUTRAL  
MAIN BOND JUMPER: NO  
SHORT CCT RATING (SCCR), Amps: 22,000  
DEFAULT POWER FACTOR: 90%

LOAD SUMMARY		Notes		Options	
Phase	kW	Notes	Options	Notes	Options
Phase A:	3	A - AFI arcing fault interrupter	A - NEMA 12/3R enclosure		
B:	3	C - Through lighting contactor	B - NEMA 12 enclosure		
C:		D - Dual (tandem) circuit breaker	C - Door-in-door front		
THIS SECTION:	5	G - GFI ground fault interrupter	D - Hinged front		
		K - Kirk key interlock	E - Top and bottom box extensions		
Phase A:	35	L - Handle LOCK-OFF/LOCK-ON	F - 400 Hz rating		
B:	31	N - New CB in existing space	G - Isolated ground bus		
C:	35	R - Replace existing CB with new CB	H - 100% rating		
SUB-FEED & FEED-THROUGH:	102	S - Switched neutral	J - NEMA 4X enclosure		
		T - 120V shunt trip	K - Internal SPD		
Phase A:	38	W - Switching duty rated SWD	L - User metering (mains)		
B:	34	AA - Only pump station #1	M - User metering (branch circuits)		
C:	35	AB - Only pump station #4	N - Stainless Steel enclosure & trim		
<b>BUS TOTAL:</b>	<b>107</b>	<b>Feeder</b>	<b>Connected kW</b>	<b>Demand kW</b>	<b>Demand %</b>
Demand Imbalance % A:	0.9%	Lighting	0	0	100
B:	-0.6%	Receptacles	0	0	100
C:	-0.3%	Other	106	56	53
Demand Imbalance %	0.9%	Total	107	57	53

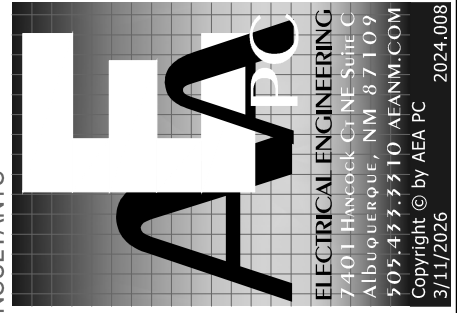
# PANEL BOARD SCHEDULE

LOAD		CB	CCT	Φ	CCT	CB	LOAD
TYPE	DESCRIPTION	SIZE	#	SIZE	#	SIZE	DESCRIPTION
LTG	INTERIOR & EXTERIOR	20	1	A	2	20	RCP 1
MEC	EXHAUST FAN EF-1	15	3	C	4	20	RCP 2
			5	A	6	70	AA
			7	C	8	2P J	AA
			9	A	10	20	
			11	C	12	20	
			13	A	14	20	0.3 SCP SCADA CONTROL PANEL
			15	C	16		
			17	A	18		
			19	C	20		
			21	A	22		
			23	C	24		

VOLTAGE (L-L): 240  
PHASE: 1  
WIRE: 3  
MOUNTING: SURFACE  
MANUFACTURER:  
OPTIONS:  
TOP: MCB  
BOTTOM:

PANEL BOARD NAME: **P1**  
BUS RATING, Amps: 125  
MAIN BREAKER RATING, Amps: 125  
FEEDER PROTECTION, Amps:  
GROUND BUS: ISOLATED FROM NEUTRAL  
MAIN BOND JUMPER: NO  
SHORT CCT RATING (SCCR): 10,000  
DEFAULT POWER FACTOR: 95%

LOAD SUMMARY		Notes		Options	
Phase	kW	Notes	Options	Notes	Options
Phase A:	4	A - AFI arcing fault interrupter	A - NEMA 12/3R enclosure		
B:		C - Through lighting contactor	B - NEMA 12 enclosure		
C:	4	D - Dual (tandem) circuit breaker	C - Door-in-door front		
THIS SECTION:	8	G - GFI ground fault interrupter	D - Hinged front		
		K - Kirk key interlock	E - Top and bottom box extensions		
Phase A:		L - Handle LOCK-OFF/LOCK-ON	F - 400 Hz rating		
B:		N - New CB in existing space	G - Isolated ground bus		
C:		R - Replace existing CB with new CB	H - 100% rating		
SUB-FEED & FEED-THROUGH:		S - Switched neutral	J - NEMA 4X enclosure		
		T - 120V shunt trip	K - Internal SPD		
Phase A:	4	W - Switching duty rated SWD	L - User metering (mains)		
B:		X - Relocated existing CB	M - User metering (branch circuits)		
C:	4	AA - Only pump station #4	N - Stainless Steel enclosure & trim		
<b>BUS TOTAL:</b>	<b>8</b>	<b>Feeder</b>	<b>Connected kW</b>	<b>Demand kW</b>	<b>Demand %</b>
Demand Imbalance % A:	0.2%	Lighting	0	0	100
B:		Receptacles	0	0	100
C:	-0.2%	Other	7	7	100
Demand Imbalance %	0.2%	Total	8	8	100



# LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3

PROJECT NAME

BY

DESCRIPTION

DATE

REV.

PROJECT NO:	20-600-894-03
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	3/11/2026

# ELECTRICAL SCHEDULES

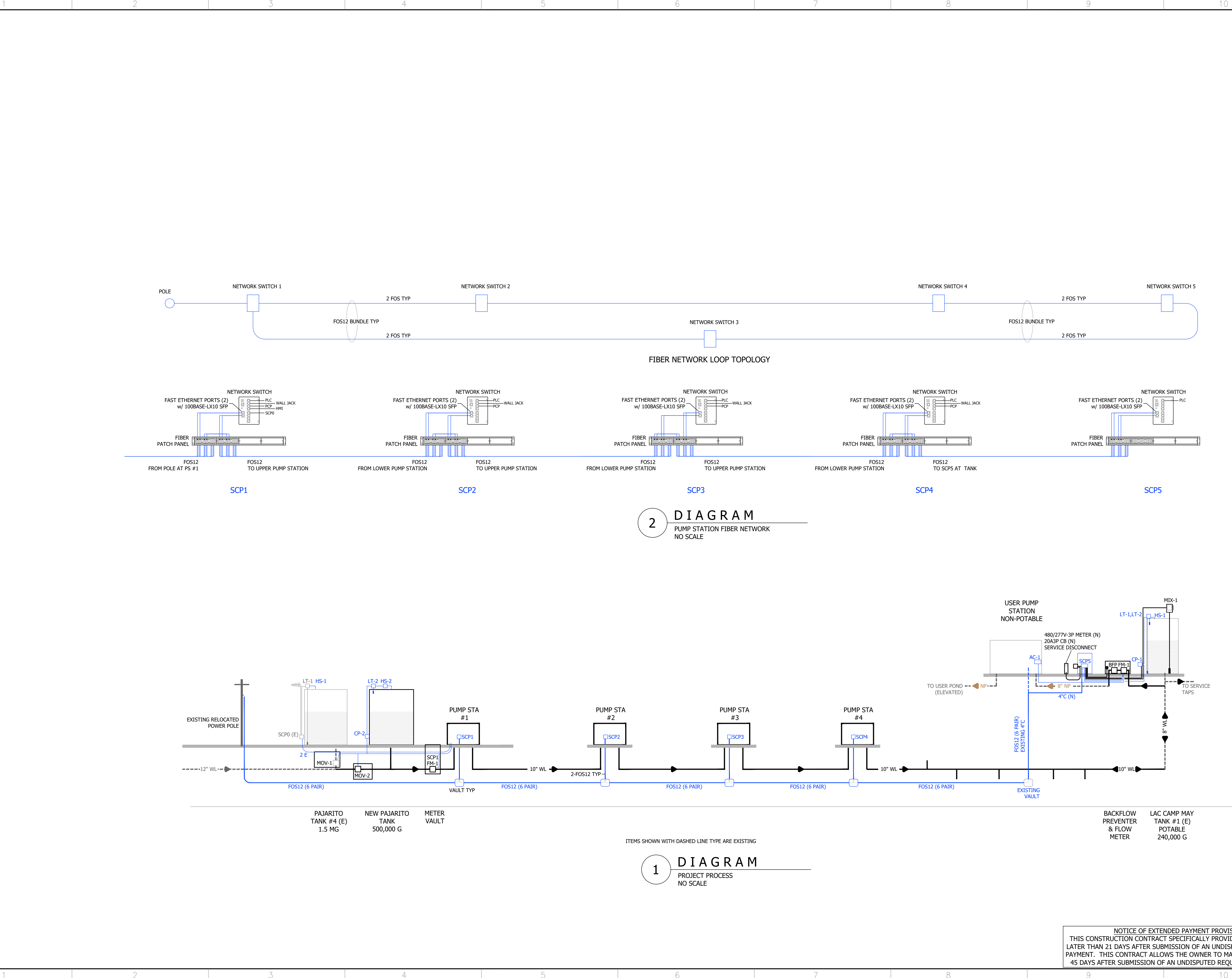
SHEET NO: **E601**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

008EAF-1.DWG

008EAC-1.DWG

H  
G  
F  
E  
D  
C  
B  
A



PAJARITO TANK #4 (E)  
1.5 MG

NEW PAJARITO TANK  
500,000 G

METER VAULT

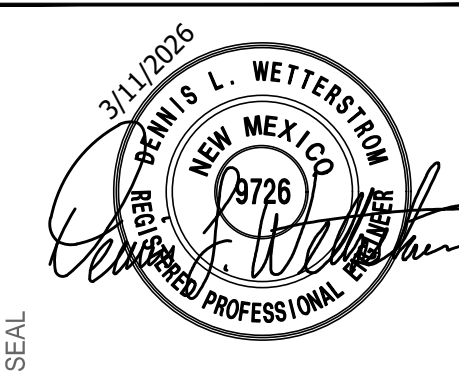
BACKFLOW PREVENTER & FLOW METER

LAC CAMP MAY TANK #1 (E) POTABLE  
240,000 G

ITEMS SHOWN WITH DASHED LINE TYPE ARE EXISTING

**WILSON & COMPANY**  
2800 THE AMERICAN RD. SE SUITE 100  
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www.wilsoncc.com

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**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL INSTRUMENTATION**

SHEET NO:  
**E701**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



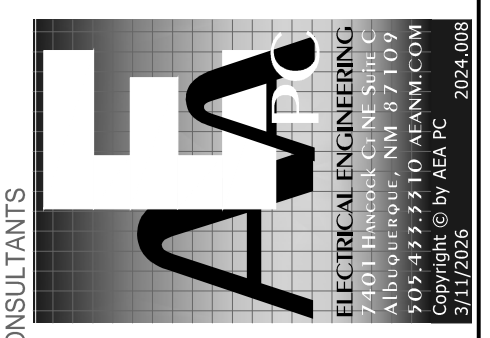
# INSTRUMENTATION and CONTROL SCHEDULE

DEVICE			FIELD										PLC				NOTES		
ID	DESCRIPTION	LOCATION	POWER			INPUTS / OUTPUTS							CONTROL						
			V-P	FROM	CCT	TYPE	SEQ	DESCRIPTION	TO/ FROM	V	PORT ID RACK SLOT PORT	WIRE TAG	CONDUIT TAG SIZE	CRITERIA	ACTIONS	TO		INDICATE	
<b>CONTINUED FROM PREVIOUS DRAWING SHEET</b>																			
<b>04 - PS4 SCP4</b>																			
04-BP-01	BP-1 PUMP SKID	PUMP HOUSE	480AC-3	L1	20,22,24	EN	1	READY RUNNING					0 1 1	04-BP-01-EN-1			READY RUNNING		
								FAULT/ALARM									ALRM 04-BP-01		
								PUMP A SPEED									PUMP FAULT PERCENT		
								PUMP B SPEED											
								SUCTION PRESS									PSIG		
								DISCHARGE PRESS									PSIG		
								VOLT/PHASE FAIL									ALRM 04-BP-02		
								PUMP A RUN TIME									HOURS		
								PUMP B RUN TIME									HOURS		
04-PF-01	FP-1 CHLORINATOR	PUMP HOUSE	240AC-1	P1	6,8	DO	1	RUN CHLORINATOR	RI/O	24		0 5 2	04-PF-01-DO-1	C08	3/4		RUN CHLORINATOR		
						AI	1	SCALE WEIGHT		24		0 3 5	04-PF-01-AI-1				SOLUTION WEIGHT		
04-SC-01	SCP CABINET SWITCH	SCP4				DI	1	PANEL DOOR OPENED	RI/O	24		0 4 1	04-SC-01-DI-1	--		ALRM 04-SC-01	SCP4 DOOR OPENED		
04-UQ-01	SCP UPS	SCP4				DI	1	UPS FAULT	RI/O	24		0 4 2	04-UQ-01-DI-1	--		ALRM 04-SC-02	SCP4 UPS FAULT		
04-PS-01	SCP SURGE PROT'N	SCP4				DI	1	SCP SPD FAULT	RI/O	24		0 4 3	04-PS-01-DI-1	--		ALRM 04-SC-03	SCP4 SURGE FAULT		
04-XT-01	SCP TEMP	SCP4				AI	1	SCP TEMP	RI/O	24		0 3 1	04-XT-01-AI-1	--	>= 105 °F	ALRM 04-SC-04	SCP4 TEMP °F		
04-PS-02	MAIN SURGE PROT'N	PUMP HOUSE				DI	1	MAIN SPD FAULT	RI/O	24		0 4 4	04-PS-02-DI-1	C03	3/4	ALRM 04-SPD-01	MAIN SPD FAULT		
04-SD-01	DS-1 DOOR SWITCH	PUMP HOUSE				DI	1	DOOR OPENED	RI/O	24		0 4 5	04-SD-01-DI-1	C04	3/4	ALRM 04-AC-01	HOUSE DOOR OPENED		
<b>05 - CAMP MAY RESERVOIR SCP5</b>																			
05-LT-01	LT-1 TANK LEVEL/TEMP TRANSMITTER	TANK				AI	1	SURFACE LEVEL	RI/O	24		0 3 1	05-LT-01-AI-1	C05	3/4	X <= 8 FT	ALRM 05-LT01-01	TANK LEVEL %	
						AI	2	WATER TEMPERATURE		24		0 3 2	05-LT-01-AI-2			X >= 38 FT	ALRM 05-LT01-02		
								< 33 °F									ALRM 05-LT01-03	TANK TEMP °F	
								<= 35 °F									ENABLE MIXER		
05-LT-02	LT-2 TANK LEVEL TRANSMITTER	TANK				AI	1	SURFACE LEVEL	RI/O	24		0 3 3	05-LT-02-AI-1	C05	3/4	X <= 8 FT	ALRM 05-LT02-01	TANK LEVEL %	
																X >= 38 FT	ALRM 05-LT02-02		
05-SH-01	HS-1 HATCH SWITCH	TANK				DI	1	ACCESS OPENED	RI/O	24		0 4 8	05-SH-01-DI-1	C05	3/4	ALRM 05-AC-01	TANK HATCH OPENED		
05-TF-01	FM-1 FLOW METER	YARD				AI	1	FM1 FLOW RATE	RI/O	24		0 3 4	05-TF-01-AI-1	C06	3/4			100 GPM	
						DI	1	FM1 FLOW TOTAL	RI/O	24		0 4 1	05-TF-01-DI-1					165 GAL	
						DI	2	FM1 FAULT	RI/O	24		0 4 2	05-TF-01-DI-2			ALRM 05-FM01	FM1 FAULT		
05-PC-01	CP-1 TANK CATHODIC PROTECTION	TANK	120AC	SCP		DI	1	RUNNING	RI/O	24		0 4 3	05-PC-01-DI-1	C05	3/4				
						DI	2	FAULT/ALARM	RI/O	24		0 4 4	05-PC-01-DI-2					ALRM 05-PC01	CATHODIC FAULT
05-CM-01	MC-1 TANK MIXER	TANK	240AC-1	SCP		DO	1	ENABLE RUN	RI/O	24		0 5 1	05-CM-01-DO-1	--					
						AI	1	MOTOR CURRENT	RI/O	24		0 3 7	05-CM-01-AI-1					ALRM 05-CM-01	RUNNING
						DI	1	RUNNING	RI/O	24		0 4 9	05-AC-01-DI-1						
05-AC-01	AC-1 CI ANALYZER	SKI AREA PUMP HOUSE	120AC-1			DI	2	FAULT/ALARM	RI/O	24		0 4 10	05-AC-01-DI-2	C07	3/4			ALRM 05-AC-01	CI ANALYZER FAULT
						AI	1	CI LEVEL	RI/O	24		0 3 6	05-AC-01-AI-1						CI LEVEL
05-SC-01	SCP CABINET SWITCH	SCP5				DI	1	PANEL DOOR OPENED	RI/O	24		0 4 5	05-SC-01-DI-1	--		ALRM 05-SC-01	SCP5 DOOR OPENED		
05-UQ-01	SCP UPS	SCP5				DI	1	UPS FAULT	RI/O	24		0 4 6	05-UQ-01-DI-1	--		ALRM 05-SC-02	SCP5 UPS FAULT		
05-PS-01	SCP SURGE PROT'N	SCP5				DI	1	SCP SPD FAULT	RI/O	24		0 4 7	05-PS-01-DI-1	--		ALRM 05-SC-03	SCP5 SURGE FAULT		
05-XT-01	SCP TEMP	SCP5				AI	1	SCP TEMP	RI/O	24		0 3 5	05-XT-01-AI-1	--	>= 105 °F	ALRM 05-SC-04	SCP5 TEMP °F		

**NOTES**

GENERAL  
X = MEASURED LEVEL  
SP = SET POINT  
PLC = PLC AT RTU  
RI/O = REMOTE I/O  
NS = NETWORK SWITCH  
CONDUIT SIZES ARE FOR SINGLE DEVICE - SEE PLANS FOR I&C CONDUITS

NUMBERED  
1 EXISTING  
2 MOTOR CONTROLLER LOCATED INSIDE SCP5



**LAC JEMEZ MOUNTAIN REGIONAL FIRE PROTECTION SYSTEM PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

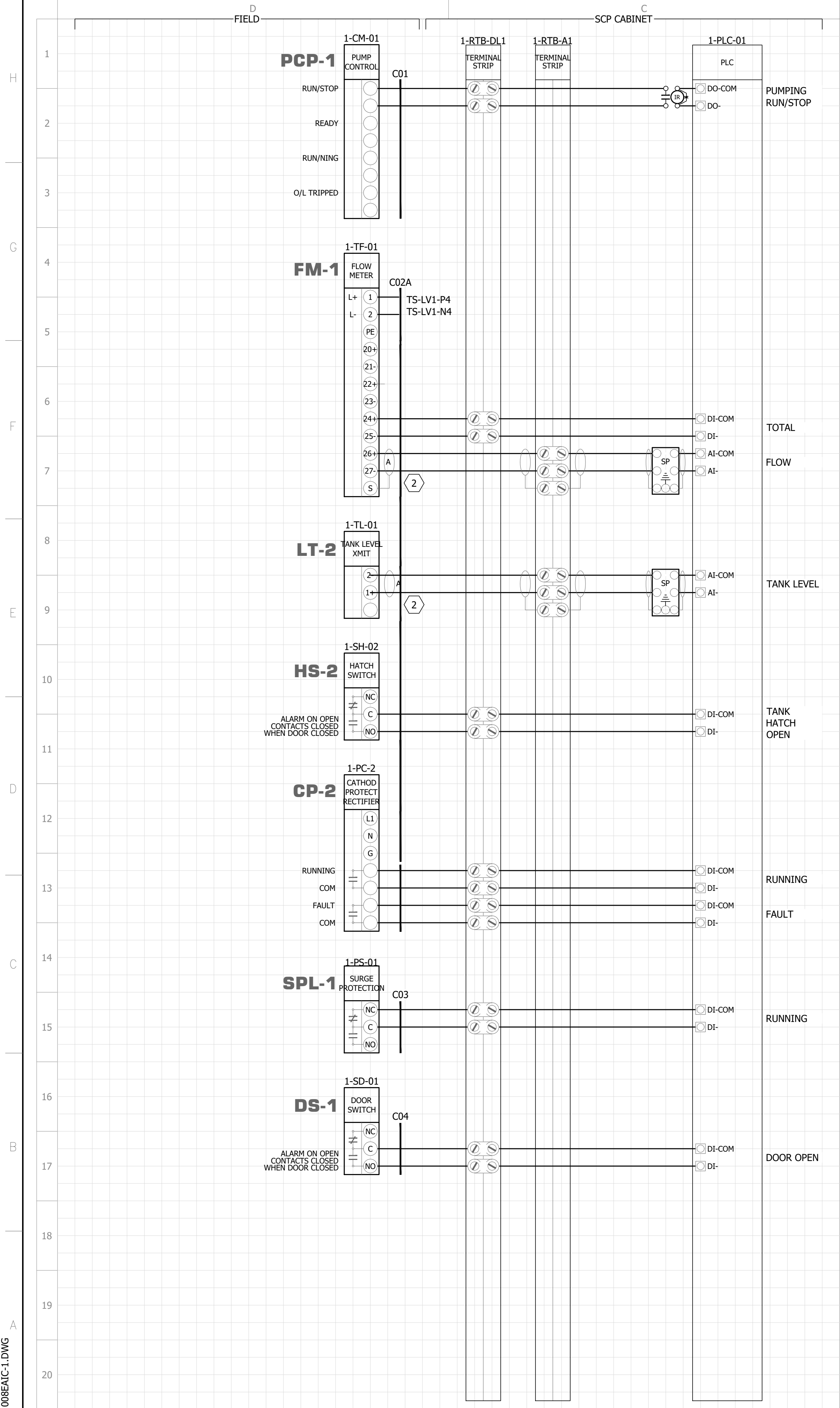
SHEET TITLE  
**ELECTRICAL INSTRUMENTATION SCHEDULES**

SHEET NO:  
**E703**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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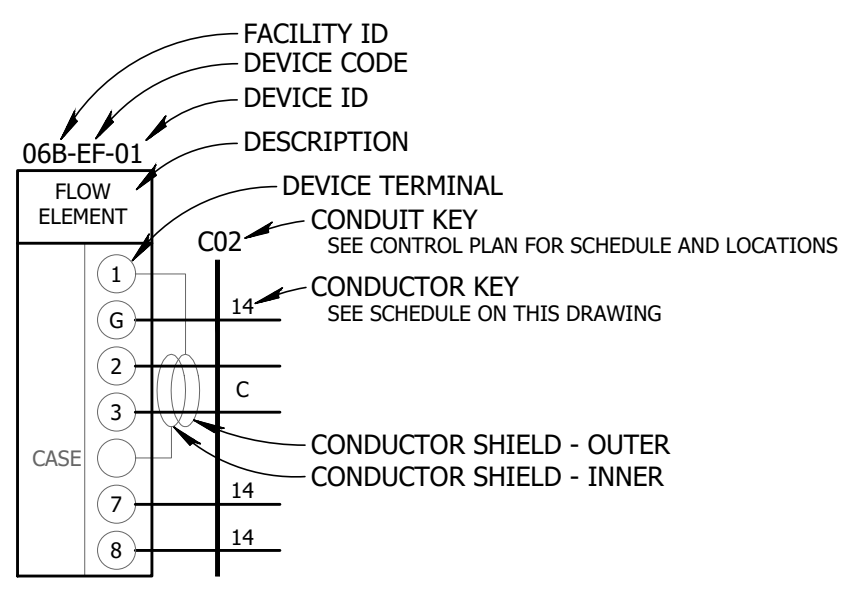
**GENERAL SHEET NOTES**

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 THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY  
 REFER TO GENERAL NOTES ON DRAWING E001

**SHEET KEY NOTES**

- 1 PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
- 2 CONNECT CONDUCTOR SHIELDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- 3 DO NOT BOND N-G AT CABINET
- 4 CONNECT NORMALLY OPEN (NO) CONTACTS IN PARALLEL FOR COMMON FAULT SIGNAL

**LEGEND**



**CONDUCTOR SCHEDULE**

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

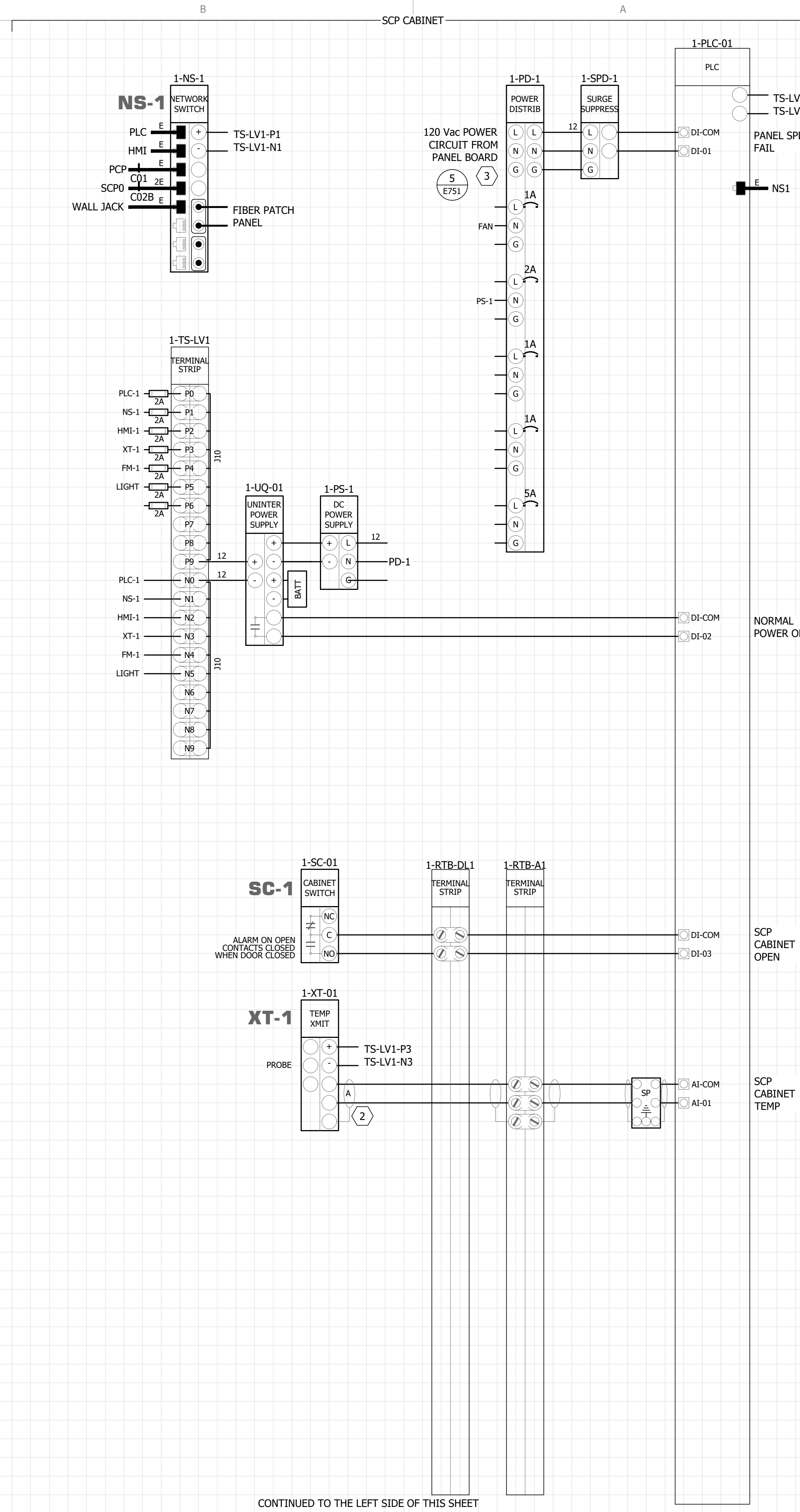
ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

TYPE	INSULATION JACKET COLOR
120/208-240 Vac	BLACK (ΦA)   RED (ΦB)   BLUE (ΦC) - WHITE (N)
277/480 Vac	BROWN (ΦA)   ORANGE (ΦB)   YELLOW (ΦC) - GRAY (N)
G	GREEN
IG	GREEN w/ YELLOW STRIPE
120-277 Vac DI	PINK or WHITE w/ BLACK, RED, OR BLUE STRIPE
120-277 Vac DO	TAN or WHITE w/ BLACK, RED, OR BLUE STRIPE
0-30 Vdc DI	PURPLE or BLACK, RED, or BLUE w/ WHITE STRIPE
0-30 Vdc DO	BLACK w/ WHITE STRIPE
AI	BLACK
AO	BLACK
E	LT. BLUE (CAT5e) LIME (CAT6)
FOM	ORANGE
FOS	YELLOW

**CONDUIT SCHEDULE**

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP-	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP1	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP-	SPL SURGE PROTECTION	2
C04	3/4"	SCP-	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

- NOTES  
 1 ONLY PUMP STATION 1  
 2 ONLY PUMP STATIONS  
 3 ONLY UPPER RESERVOIR SCP5  
 4 ONLY PUMP STATION 4



NOTICE OF EXTENDED PAYMENT PROVISION:  
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**WILSON & COMPANY**  
 2600 THE AMERICAN RD. SE SUITE 100  
 RIO RANCHO, NM 87124  
 PHONE: 505-898-8021  
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 www.wilsoncc.com

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3/11/2026  
 PAUL B. L. WETTER, P.E.  
 NEW MEXICO  
 8726  
 REGISTERED PROFESSIONAL  
 SEAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

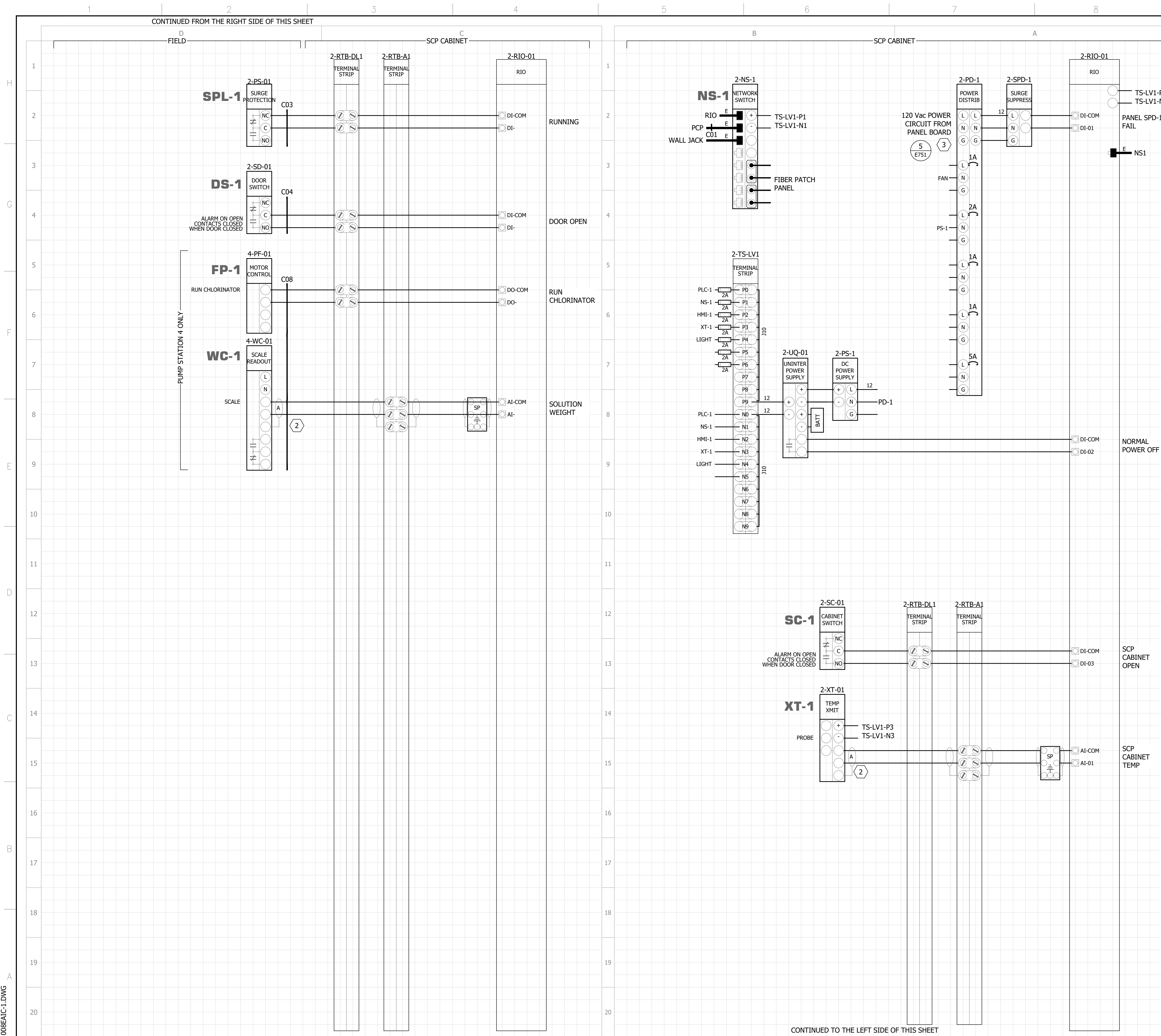
PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCP1**

SHEET NO:  
**E711**

008EAC-L.DWG

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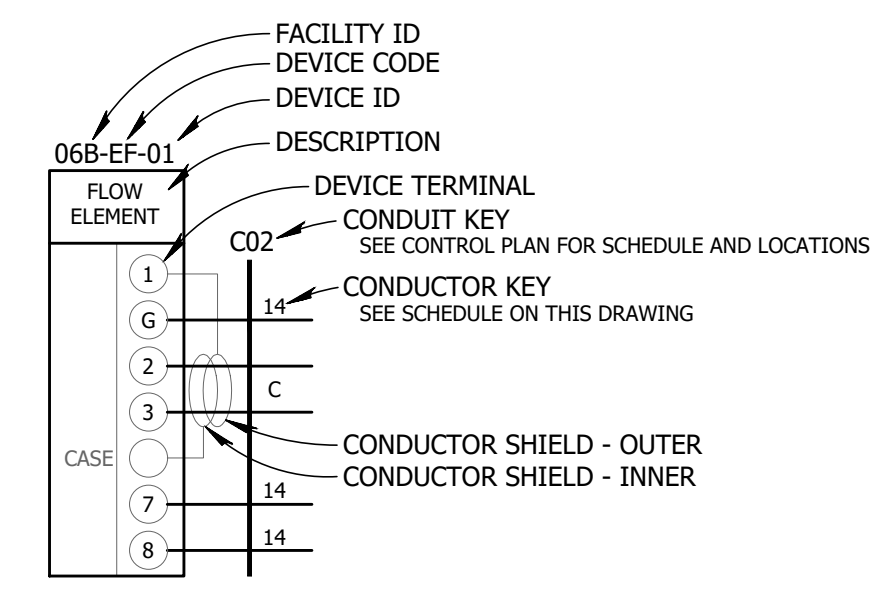
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 REFER TO GENERAL NOTES ON DRAWING E001

### SHEET KEY NOTES

- PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
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- DO NOT BOND N-G AT CABINET
- CONNECT NORMALLY OPEN (NO) CONTACTS IN PARALLEL FOR COMMON FAULT SIGNAL

### LEGEND



### CONDUCTOR SCHEDULE

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

### CONDUIT SCHEDULE

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP	SPL SURGE PROTECTION	2
C04	3/4"	SCP	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

- NOTES  
 1 ONLY PUMP STATION 1  
 2 ONLY PUMP STATIONS  
 3 ONLY UPPER RESERVOIR SCP5  
 4 ONLY PUMP STATION 4

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SEAL  
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 RAINBOW L. WETTER  
 NEW MEXICO  
 8726  
 REGISTERED PROFESSIONAL  
 ENGINEER

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCP2 SCP3 SCP4**

SHEET NO:  
**E712**

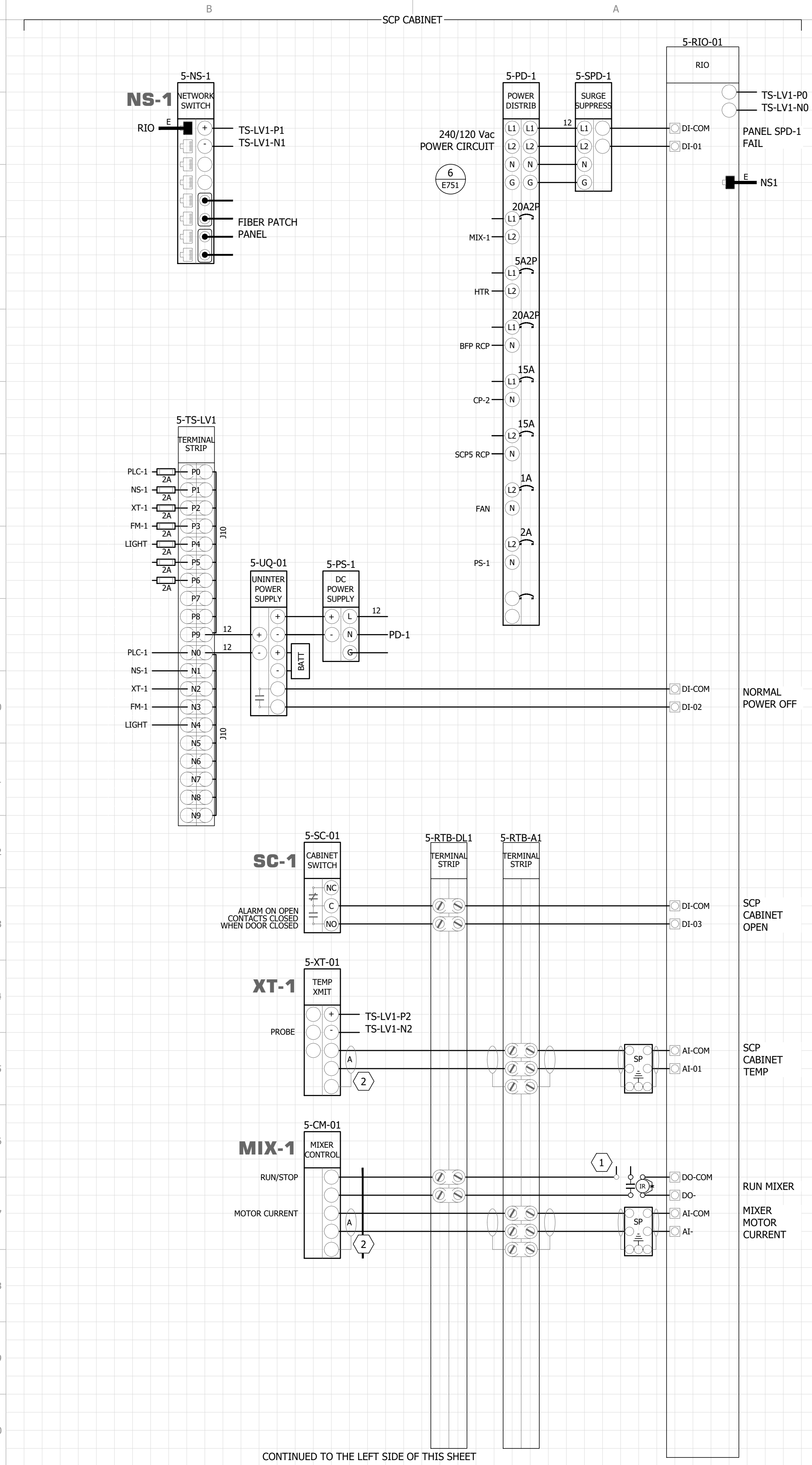
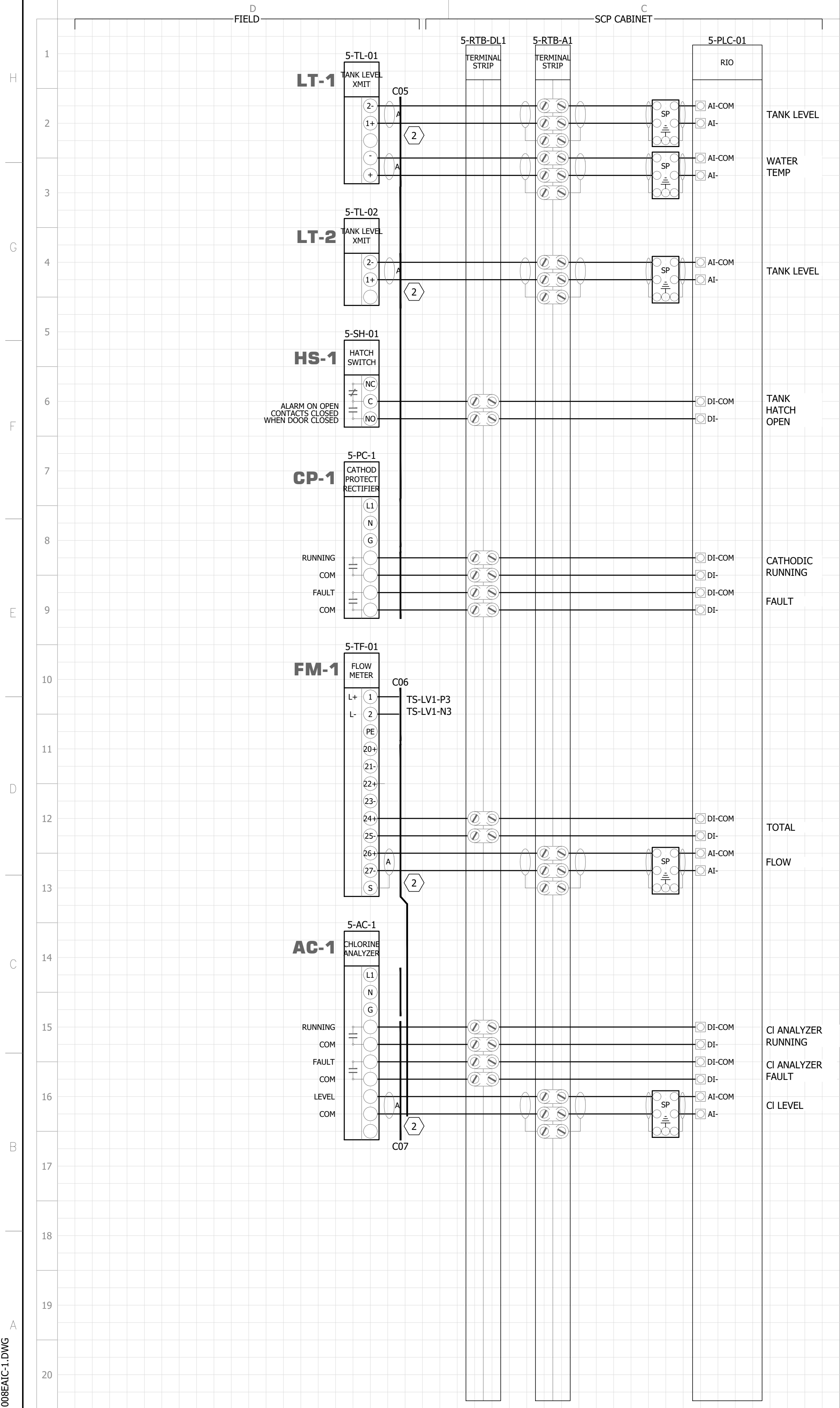
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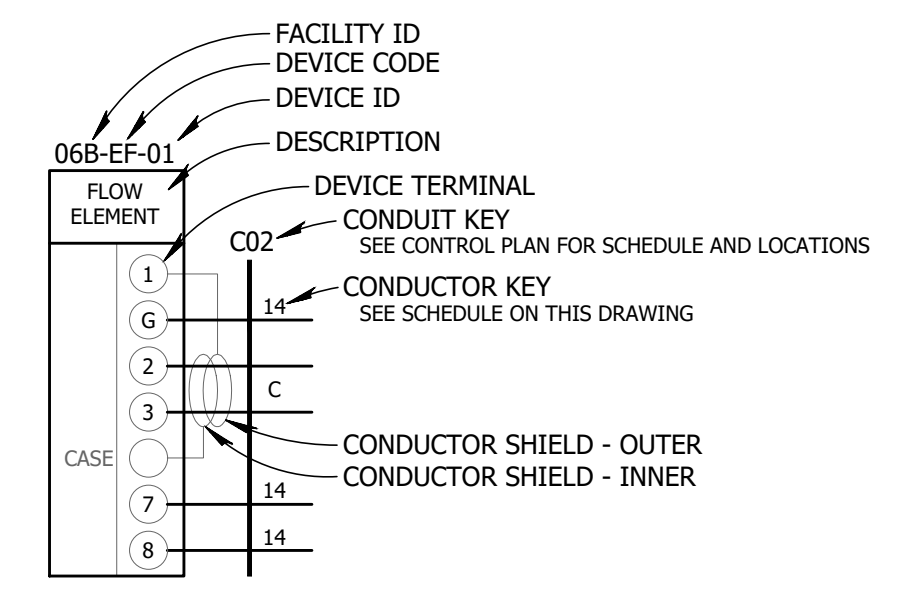
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 REFER TO GENERAL NOTES ON DRAWING E001

**SHEET KEY NOTES**

- PROVIDE 24 Vdc AUXILIARY (AUX) POWER FOR DEVICE
- CONNECT CONDUCTOR SHIELDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- DO NOT BOND N-G AT CABINET
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**LEGEND**



**CONDUCTOR SCHEDULE**

KEY	DESCRIPTION
A	#18TPS (2C) STRANDED TINNED CU TWISTED PAIR SHIELDED
B	SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
C	DOUBLE SHIELDED (FURNISHED BY INSTRUMENT SUPPLIER)
D	#18TPS (3C) STRANDED TINNED CU TWISTED PAIR SHIELDED w/ GROUND
E	4#24 UTP CAT 6 ETHERNET PLENUM RATED
F	COAXIAL ANTENNA CABLE RG-6U
12	#12 AWG SOLID CU THHN/THWN-2 600V
14	#14 AWG STRANDED CU MTW 300V
16	#16 AWG STRANDED CU MTW 300V
6	#6 AWG SOLID CU GND (GREEN THHN/THWN-2) 600V
FOMxx	MULTI-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT
FOSxx	SINGLE-MODE FIBER OPTIC BUNDLE xx = STRAND COUNT

ALL SIGNAL CONDUCTORS TO BE KEY 16 UNLESS INDICATED OTHERWISE

TYPE	INSULATION JACKET COLOR
120/208-240 Vac	BLACK (ΦA)   RED (ΦB)   BLUE (ΦC) - WHITE (N)
277/480 Vac	BROWN (ΦA)   ORANGE (ΦB)   YELLOW (ΦC) - GRAY (N)
G	GREEN
IG	GREEN w/ YELLOW STRIPE
120-277 Vac DI	PINK or WHITE w/ BLACK, RED, OR BLUE STRIPE
120-277 Vac DO	TAN or WHITE w/ BLACK, RED, OR BLUE STRIPE
0-30 Vdc DI	PURPLE or BLACK, RED, or BLUE w/ WHITE STRIPE
0-30 Vdc DO	BLACK w/ WHITE STRIPE
AI	BLACK
AO	BLACK
E	LT. BLUE (CAT5e) LIME (CAT6)
FOM	ORANGE
FOS	YELLOW

**CONDUIT SCHEDULE**

KEY	SIZE	FROM	TO	NOTE
C01	1"	SCP-	PCP PUMP CONTROL PANEL	2
C02A	1"	SCP1	LT-1, HS-1, CP-1, FM-1	1
C02B	1"	SCP1	SCP0	1
C03	3/4"	SCP-	SPL SURGE PROTECTION	2
C04	3/4"	SCP-	DS1 DOOR SWITCH	2
C05	1+1/2"	SCP5	LT-1, HS-1, CP-1	3
C06	1+1/2"	SCP5	FM-1 FLOW METER	3
C07	1+1/2"	SCP5	AC-1	3
C08	1"	SCP4	FP-1	4

- NOTES
- ONLY PUMP STATION 1
  - ONLY PUMP STATIONS
  - ONLY UPPER RESERVOIR SCP5
  - ONLY PUMP STATION 4

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 3/11/2026

SEAL  
 3/11/2026  
 PAUL B. L. WETTER, P.E.  
 NEW MEXICO  
 8728  
 REGISTERED PROFESSIONAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

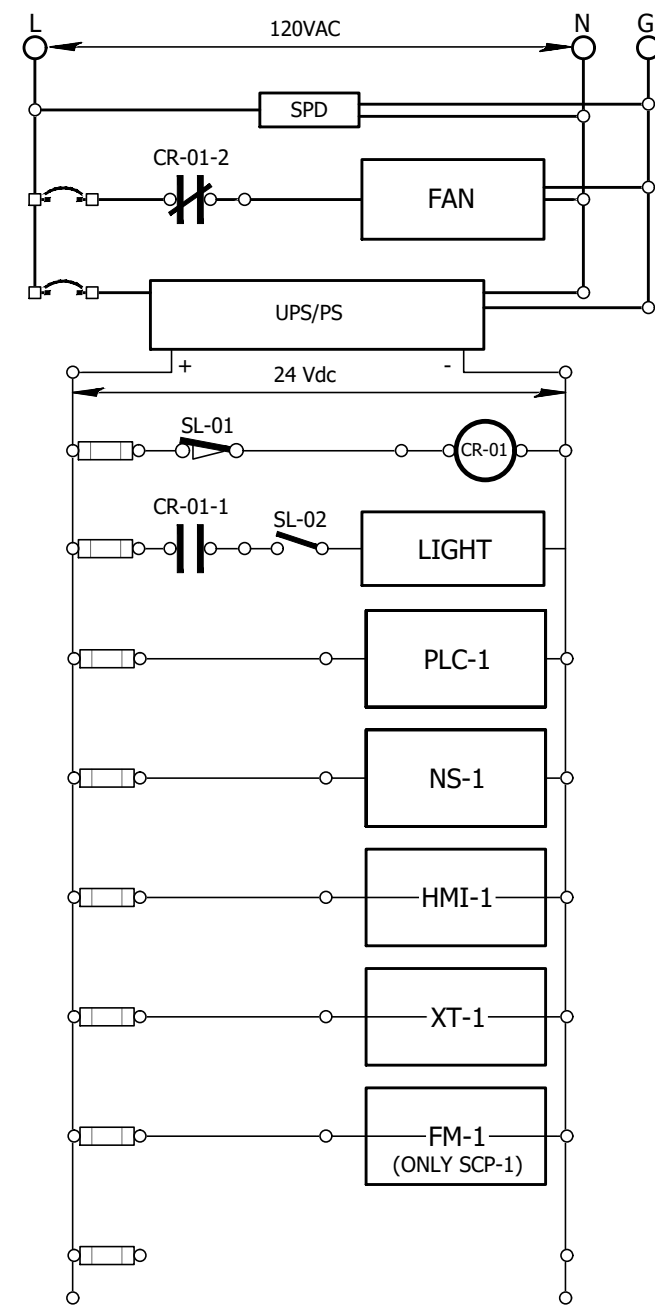
SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCP5**

SHEET NO:  
**E713**

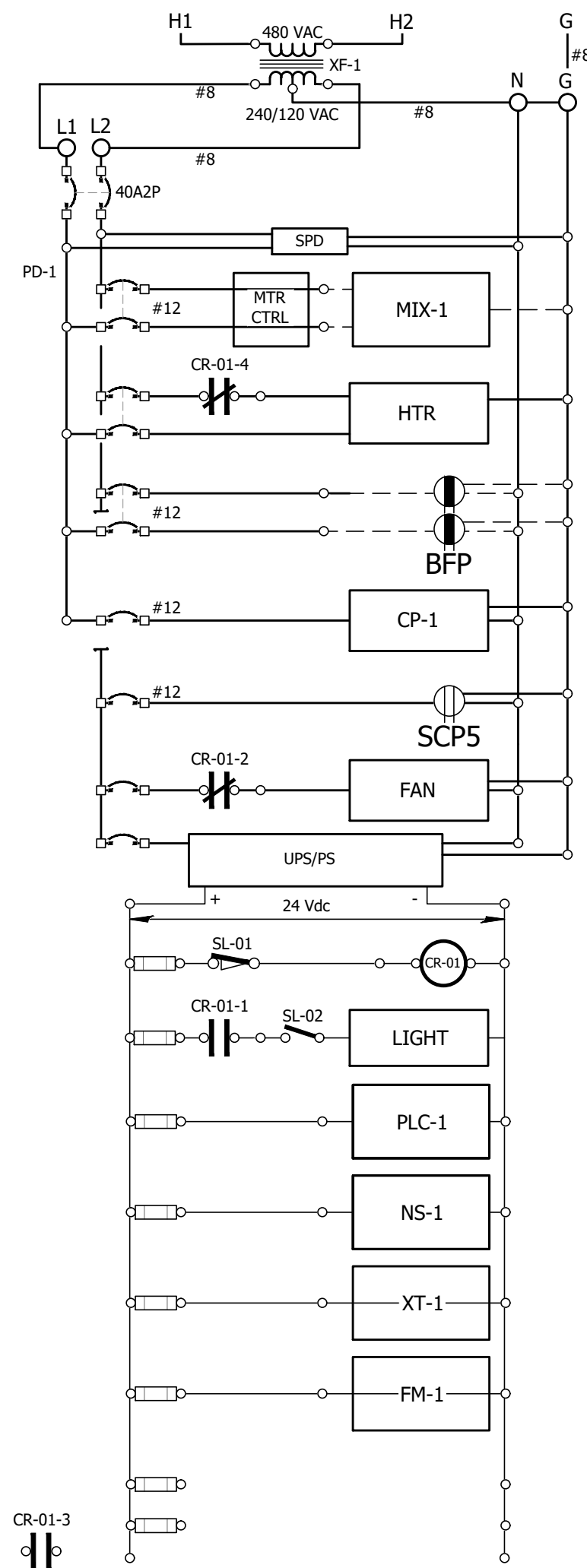
NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT  
 LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR  
 PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN  
 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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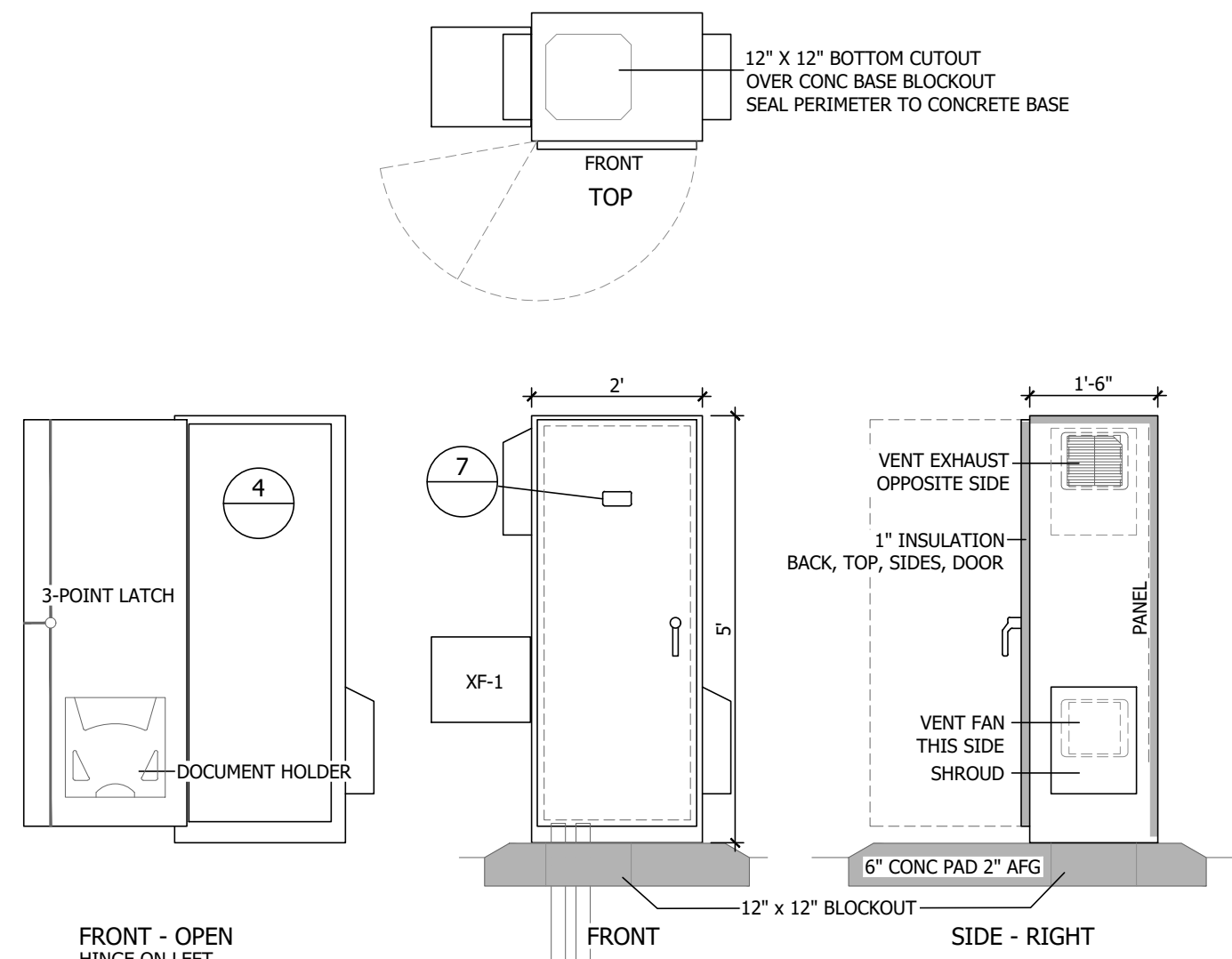
CONTINUED TO THE LEFT SIDE OF THIS SHEET



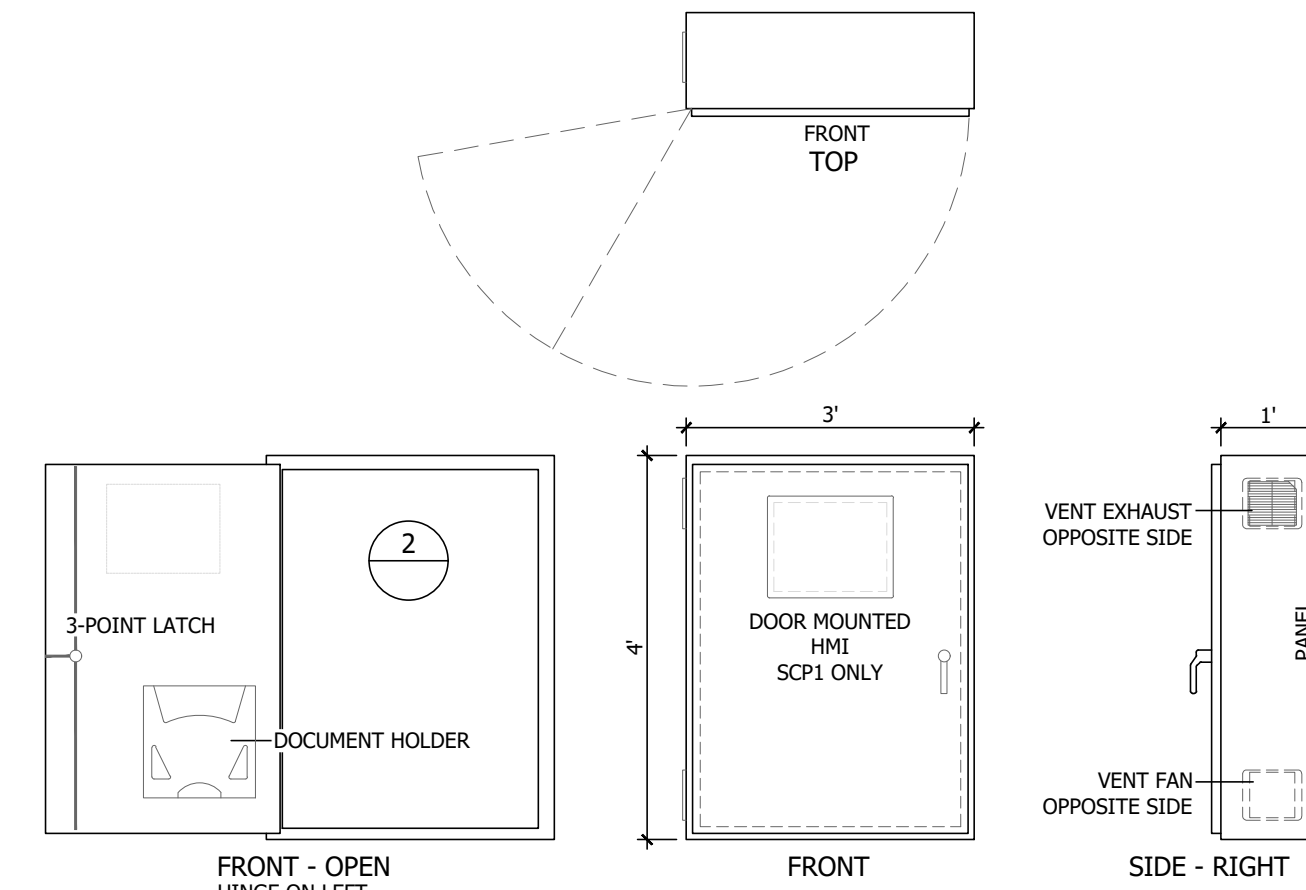
**5 DIAGRAM**  
POWER SCP1 - SCP4  
NO SCALE



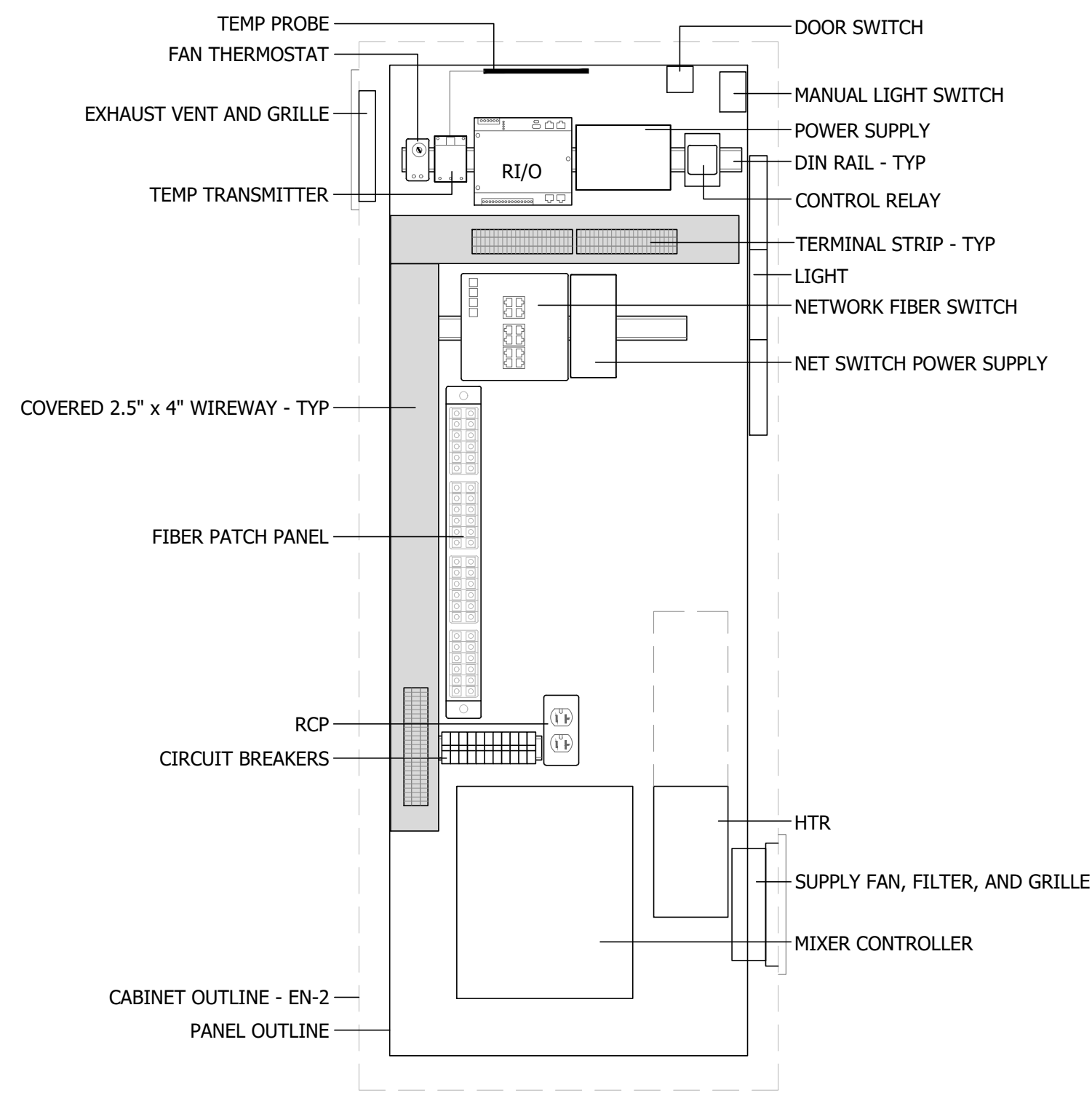
**6 DIAGRAM**  
SCP5 POWER  
NO SCALE



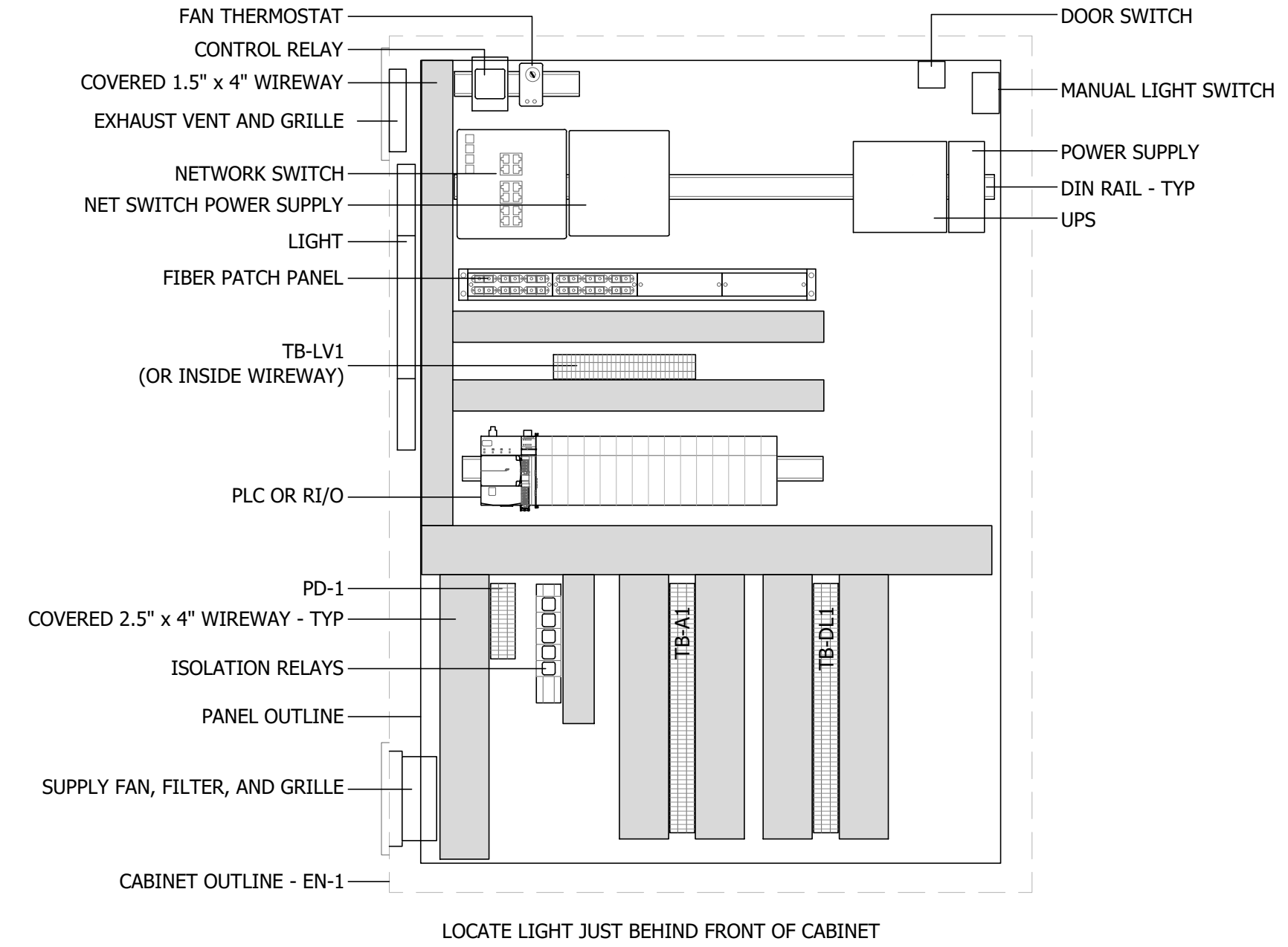
**3 DETAIL**  
SCP5 ENCLOSURE  
1/2" = 1'-0"



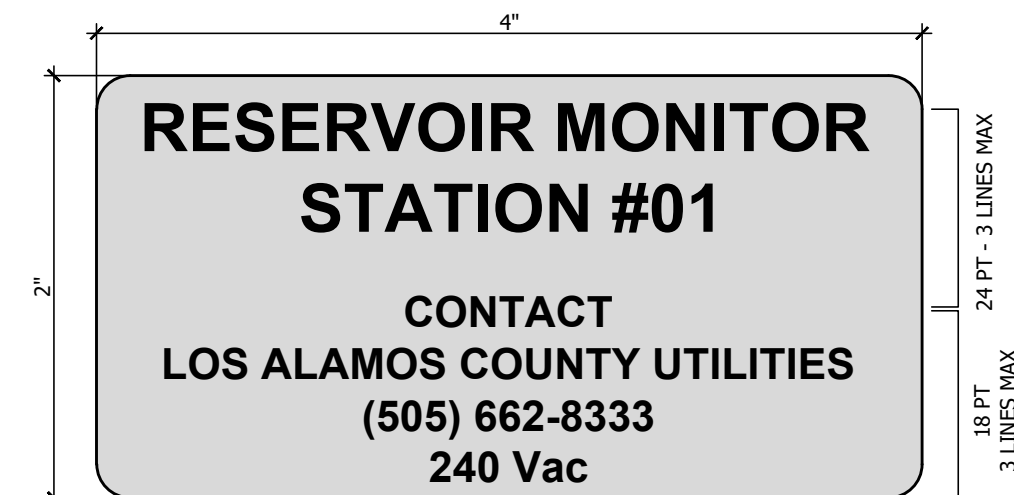
**1 DETAIL**  
SCP1 - SCP4 ENCLOSURE  
1/2" = 1'-0"



**4 DETAIL**  
SCP5 INTERIOR  
1 1/2" = 1'-0"



**2 DETAIL**  
SCP1 - SCP4 INTERIOR  
1 1/2" = 1'-0"



ENGRAVED FILLED BLACK ON S/S - ALL FONTS SHALL BE ARIAL BOLD  
PROVIDE STATION NUMBER UNIQUE FOR EACH CABINET

**7 DETAIL**  
ADVISORY SIGN  
NO SCALE

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3/11/2026

3/11/2026  
PAUL S. L. WETTER, P.E.  
NEW MEXICO  
3726  
REGISTERED PROFESSIONAL

PROJECT NAME  
**LAC JEMEZ MOUNTAIN  
REGIONAL FIRE  
PROTECTION SYSTEM  
PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
DESIGNED BY: DLW  
DRAWN BY: DLW  
CHECKED BY: DLW  
DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
INSTRUMENTATION  
DETAILS**

SHEET NO:  
**E751**

NOTICE OF EXTENDED PAYMENT PROVISION:  
THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT  
LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR  
PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN  
45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

H  
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### MATERIAL SCHEDULE

KEY	MANUFACTURER	MODEL NO.	DESCRIPTION	QUAN	NOTES
CR-01	SCHNEIDER ELECTRIC	8501-XDO40V53	CONTROL RELAY, 24 Vdc COIL, 2NO/2NC CONTACTS (CONVERTIBLE), 5 A 125 Vdc CONTACT RATING	1	
EN-1	nVent	CSD483612LG CP4836G	NEMA 12 ENCLOSURE, MILD STEEL, CONTINUOUS HINGE, 48"H x 36"W x 12"D, 3-POINT LATCH, CORBIN KEY LOCK, CONDUCTIVE MOUNTING PANEL	1	1
EN-2	nVent	A602418SSFSN4 CP6024G	NEMA 4X FREE STANDING ENCLOSURE, 304 STAINLESS STEEL, CONTINUOUS HINGE, 60"H x 24"W x 18"D, 3-POINT LATCH, CORBIN KEY LOCK, CONDUCTIVE MOUNTING PANEL	1	2
FPP-1	OPTICAL CABLE CORP.	RTS1U-HD4APB +(4) 61125MDLC	FIBER OPTIC PATCH PANEL, RACK MOUNT, 48 PORT, 1RU SPACE, (4) MODULAR 12 PORT TYPE LC ADAPTER PLATES, BLACK	1	
HTR-1	nVent	DAH8002B	ELECTRIC HEATER, 800W, 240Vac, AL HOUSING, THERMOSTATIC CONTROL 0-100°F, SET AT 40°F	1	2
LI-1	nVent	LED24V15	LED LIGHT BAR, ADJ ANGLE, 24 Vdc, 470 LUMEN MIN, #LED24CORD (1), #LDSWITCH72 (1)	1	
NS-1	CISCO	IE3400-8P25-E + PWR-IE65W-PC-DC + (2) GLC-FE-100LX	CATALYST INDUSTRIAL NETWORK SWITCH, 2 GIGABIT ETHERNET (GE) UPLINK PORTS (100/1000 Mbps), 8 FAST ETHERNET PORTS (RJ-45 COPPER 10/100/1000 Mbps), PoE/PoE+, 54 Vdc 35W, DIN RAIL MOUNT, 3.8 lb, 100BASE-LX10 10 km SFP	1	
PLC-1	ALLEN BRADLEY	5069-L330ER	PLC, COMPACTLOGIX, 24 Vdc, USB PORT, (2) ETHERNET PORTS, 3 MB RAM, 8 MB OPTIONAL RAM, MAX 31 I/O MODULES, 8.5W, DIN RAIL MOUNT, REMOVABLE TERMINAL BLOCK, 1.7 lb, I/O MODULES AS NEEDED	1	
PS-1	PHOENIX CONTACT		UPS/POWER SUPPLY	1	
SL-1	nVent	ALFSWD	DOOR SWITCH, DOOR ACTIVATED	1	
SL-2	nVent	ALFSWM	LIGHT SWITCH, MANUAL	1	
SPD-1	PHOENIX CONTACT	2902577	SURGE PROTECTION DEVICE, DIN RAIL MOUNTING, 120 Vac, 20 kA PEAK, SINE WAVE TRACKING, -54 dB EMI/RFI FILTERING, 25 kA SCCR, DRY ALARM CONTACTS	1	
ST-1	nVent	ATEMNO	FAN THERMOSTAT, ADJUSTABLE, CLOSE-ON-RISE (NO), SET AT 75°F	1	
TT-1			TEMP TRANSMITTER, 24 Vdc, 4-20ma, DIN RAIL MOUNT	1	
VF-1	nVent	TFP41UL12	COOLING FAN PACKAGE, 120 Vac, 15 W, 55 CFM, COMPOSITE HOUSING, PLENUM, GUARD, AND GRILLE, DISPOSABLE FILTER	1	1
VF-2	nVent	TFP4UL12	EXHAUST PACKAGE, COMPOSITE HOUSING, PLENUM, AND GRILLE, DISPOSABLE FILTER	1	1
VF-3	nVent	TFP61UL12	COOLING FAN PACKAGE, 120 Vac, 32 W, 140 CFM, COMPOSITE HOUSING, PLENUM, GUARD, AND GRILLE, DISPOSABLE FILTER	1	2
VF-4	nVent	TFP6UL12	EXHAUST PACKAGE, COMPOSITE HOUSING, PLENUM, AND GRILLE, DISPOSABLE FILTER	1	2
XF-1	SCHNEIDER ELECTRIC	7400-4X7540FSS	NEMA 4X ENCLOSED RESIN ENCAPSULATED TRANSFORMER, SINGLE PHASE, 480V-240/120V, 7.5 Kva	1	2

**NOTES**  
 GENERAL  
 ALL ITEMS ARE NO SUBSTITUTION - QUANTITIES ARE PER SCP  
 NUMBERED  
 1 SCP1 - SCP4 ONLY  
 2 SCP5 ONLY

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**LAC JEMEZ MOUNTAIN  
 REGIONAL FIRE  
 PROTECTION SYSTEM  
 PHASE 3**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 20-600-894-03  
 DESIGNED BY: DLW  
 DRAWN BY: DLW  
 CHECKED BY: DLW  
 DATE: 3/11/2026

SHEET TITLE  
**ELECTRICAL  
 INSTRUMENTATION  
 SCHEDULES**

SHEET NO:  
**E761**

NOTICE OF EXTENDED PAYMENT PROVISION:  
 THIS CONSTRUCTION CONTRACT SPECIFICALLY PROVIDES FOR A PAYMENT LATER THAN 21 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT. THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

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1 2 3 4 5 6 7 8 9 10